Technical Basis Document

Acceptable Knowledge Process Description

Repackaging of Building JN-1 Clean-Up Waste Containers

TCP-98-03.1.2

Revision 2

July 2001

Prepared for:

Battelle Columbus Laboratories
Decommissioning Project (BCLDP)
Columbus, Ohio

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1	10/20/99

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Issued By	RB

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LATEST DOCUMENT REVISION

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Issue Date	
Issued By	

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This report, ***TCP-98-03.1.2, Acceptable Knowledge Process Description – Repackaging of Building JN-1 Clean-Up Waste Containers***, has been reviewed and approved by the following.

Approved By:

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7/13/01
Date

1.0 INTRODUCTION

This Technical Basis Document describes waste packaging operations to be performed by the Battelle Columbus Laboratories Decommissioning Project (BCLDP) Transuranic Waste Certification Program (TRU WCP). Specifically, this document describes the process implemented to repackage drums, hoppers, and cans of materials generated during clean-up operations in the following areas of the Building JN-1 Hot Cell Laboratory:

- High Energy Cell (HEC)
- Low Level Cell (LLC)
- High Level Cell (HLC)
- Alpha-Gamma Cells
- Controlled Access Area (CAA)

This waste consists of materials either generated originally in these areas or moved into these areas during the historical operations described in TCP-98-03, *Building JN-1 Hot Cell Laboratory Acceptable Knowledge Document.*

This report provides an auditable record that serves as a road map to the sources of acceptable knowledge (AK) used to describe the process and characterize each TRU waste stream in accordance with TC-AP-03.1, *Collection, Review, and Management of Acceptable Knowledge Documentation*[3]. The purpose of this document is to identify the historical origin of the waste materials and describe the newly-generated TRU waste process, and to characterize the TRU waste streams that will be generated by this process as required by TCP-98-02, *Transuranic Waste Characterization Quality Assurance Project Plan (QAPjP) for the BCLDP TRU WCP*[1]. The TRU waste stream characterization is based on review of the Building JN-1 waste inventories to be repackaged by this operation. Appendices A, B, C, and D describe these waste inventories.

2.0 HISTORY

This section provides a brief summary of the historical operations associated with the Building JN-1 waste to be repackaged by this process. TCP-98-03, *Building JN-1 Hot Cell Laboratory Acceptable Knowledge Document*, provides a more comprehensive description of operations in the Hot Cell Laboratory.

During historical clean-up operations of the Building JN-1 hot cells and supporting areas, debris waste has been placed into a variety of containers and placed into storage for future processing. The waste to be repackaged by this process consists of the following inventories generated during these clean-up campaigns:

- **59 Drums** of waste generated in the HEC and CAA during the Mid-1980s (Appendix A).[C021,U022]
- **24 Hoppers (casks)** of waste from the HEC, LLC, HLC, and Alpha-Gamma Cells. All but seven are loaded with waste cans (Appendix B).[C024,P008]
- **113 Berry Cans** from the HCL generated from December 1988 through February 1989 (Appendix C).[C024,P017]
- **165 Berry Cans** from the Alpha-Gamma Cells (except cells 5 and 6) generated from June to September 1999 (Appendix D).[C024]

2.1 High Energy Cell and Transfer/Storage Pool

In 1971 and 1972 the High Bay (also known as JN-1B) was constructed to house the HEC, Transfer/Storage Pool, and supporting areas. The HEC and pool were specifically designed to accommodate the receipt, storage, transfer, and examination of entire fuel assemblies, which was not feasible before this time. Prior to the construction of the High Bay, shipments of radioactive materials were received at the loading dock and introduced directly into the hot cells.(2)

After shipping casks containing fuel assemblies were received at the High Bay, the casks were cleaned in the Washdown Room. After cleaning, a 50-ton crane was used to transfer the casks into the Transfer/Storage Pool. Once in the pool, the casks were opened and the fuel assemblies were moved into the HEC through a transfer canal in the west wall of the pool. The pool was also used to store radioactive materials for the Hot Cell Laboratory.(2) In some instances, materials were stored for extended periods of time. For instance, defense-related N-reactor pressure tubes were received and stored in the pool from 1981 to 1987.(8)

Once in the HEC, several nondestructive examinations were performed on the assemblies, bundles, and rods. Fuel assemblies would be weighed, measured, temperature measured, photographed, and video taped. Holes were then cut into the nozzle/cap of the assembly and the rods (encased by the cladding) would be removed. Each rod would be photographed, weighed, measured, and tested. The nondestructive examination included eddy current, profilometry, horizontal and vertical bow, and gamma scan. Fission gases were collected and analyzed from a hole drilled in the cladding. These examinations accounted for approximately 90 percent of the work performed in the cell. Other activities included studies and characterization of Three Mile Island (TMI) resins used to decontaminate water, effects of Cobalt-60 on instrumentation, and fuel rod compaction. Fuel rods were cut into 4-foot lengths using a tubing cutter or an abrasive wheel (non-fuel containing materials only), placed in transfer casks, and transferred to the High Level Cell for destructive testing.(2)

The Transfer/Storage Pool measures 20 by 20 feet and is 49 feet deep. The pool contained nearly 150,000 gallons of water replenished from a 1,500-gallon tank of deionized water. The pool water was filtered by an ion-exchange system in the Pump Room. The system consisted of 12 ion-exchange columns, each containing CM-2 regenerated mixed bed ion exchange resin (two 5-pound bags) and two cellulose/glass fiber cartridge prefilters. Pool water passed through the prefilters to remove particulates, then through the resin beds to remove minerals, salts, and other ions.[2,8] The repackaging of the prefilters and resin are addressed in TCP-98-03.1.1, *Acceptable Knowledge Process Description, Repackaging of JN-1 Transfer/Storage Pool Filter Change-Out Waste*, and are not included in the inventory described by this document.

Starting in 1995, an effort was begun to drain and evaporate the water contained in the pool. In June of that same year, metal debris from the bottom of the pool was removed. Metal debris such as spent fuel pieces, wire, nuts, and bolts were removed from the bottom of the pool using magnet and gripper techniques. The bottom of the pool was then vacuumed using a Tri Nuclear Corporation UFV-100 underwater vacuum system. This process removed the silt settled on the pool bottom and cleaned the walls of the pool. The water in the pool was then polished using the ion-exchange system in the pump room to reduce the activity of the pool water.[D004,P045,P046,P047]

Transfer of pool water began in November 1995. The water was pumped through a Tri-Nuc filter and ion-exchange resin bed into three 10,000-gallon tanks. The tank water was then sampled, released, and evaporated into the atmosphere. The tanks and filtering systems used for this operation were leased from Diversified Systems, Inc. The filtering system was taken from the site at the completion of the transfer. The only materials remaining in the inventory are the used Tri-Nuc filters. (see Section 4.0).[D004]

2.2 Controlled Access Area

The primary purpose of the CAA was to support operations conducted in the HLC, LLC, Mechanical Test Cell (MTC), and Alpha-Gamma Cells. Equipment, specimens, and other materials were moved in and out of the cells through a number of ports and doors. A crane was used to move heavy equipment into the HLC through the main cell door. In addition to material transfer capabilities, the area was used to service manipulator arms, and for special projects, drum compaction, and equipment and specimen decontamination.[2]

A repair bench in the area was used to repair and service manipulators. The repair bench was accessible by four glove holes through a window for shielding. The manipulators fit through five other holes in the window and rested on a device that controlled their movement to accommodate repair. The contaminated portion of the arm was generally repaired inside the CAA. A portable 55-gallon drum compactor was operated in a plastic enclosure located next to the MTC door. The purpose of the plastic enclosure was to contain airborne contamination which was vented to the CAA HEPA filter bank.[2]

During operations, the CAA was in constant use and was exposed to contamination from the cells it supported. For this reason, the wastes packaged from this area could be contaminated with chemicals and radionuclides from any of the hot cells.[2]

2.3 High Level and Low Level Cells

The HLC and LLC were the original cells constructed in JN-1 in 1955. These cells consist of two main cells located above grade level with two subterranean cells (subcells) located directly below. The LLC and HLC are separated by a shielding wall, and were designed to provide shielding for 10,000 curies and 10 million curies of a 1-Mev gamma emitter, respectively. Entrance into each cell was gained through hydraulically operated steel doors in the CAA. Nondestructive examination, destructive testing, and material preparation were conducted in the cells. Operations performed included rod marking, sectioning, defueling, visual examination, and measurement. In addition, gamma scan, tensile, fission gas, rod void volume, fuel bulk density, autoradiography, and burst testing analyses were conducted.[2]

In 1988 and 1989, waste materials remaining in the HLC were compacted into metal cans and transferred to the LLC where they were gamma scanned (see Appendix C).

2.4 Alpha Gamma Cells

The Alpha-Gamma Cells consist of 10 interconnected cells located in the basement under the shipping and receiving dock at the JN-1 facility. The original nine cells (Cells 1-9) were constructed in 1964 to support metallography testing of fuel rod specimens. The room adjacent to Cell 1 was constructed as an evaporator room for low level radioactive liquids. Cell 10 was added in this area in the early 1970s.[2]

Cells 1, 2, 3, and 10 were dedicated to support metallography operations. In the LLC, 1-3/4 inch diameter specimens (Metmounts) of fuel rods were prepared and transported to Cell 3 (through Cell 4). Cell 3 is considered the most contaminated cell, and the two grinders the most contaminated equipment in the basement. The Metmounts were ground to the desired thickness in Cell 3; polished, washed (alcohol and water), and acid etched in Cell 2; and hardness tested and photographed using a Metallograph in Cell 1. In the early 1970s, the equipment in Cell 1 was abandoned and operations were transferred to Cell 10 where a new Metallograph was installed.[2]

Cells 5 and 6 were designed and constructed to prepare Californium-252 sources. Cells 5 and 6 were not used until the mid-1970s when the californium source program was initiated, and have not been used for any other projects. Wastes generated in Cells 5 and 6 will not be TRU and are not eligible for disposal at the Waste Isolation Pilot Plant (WIPP).[2]

Cell 7 was used primarily to prepare burnup fuel samples for disposal. Fuel samples from burnup analysis in the High Level Cell were transferred into Cell 7 through a port in the floor of the back dock. The cladding was removed from the fuel and returned to the HLC through the same port. The fuel was dissolved with nitric acid, diluted, mixed with cement, and allowed to solidify in foam cups (referred to as slugs).(2)

In Cell 8, unclad fuel samples were tested for thermal conductivity. The test instrument consisted of a two-foot diameter plate with a small electric furnace at the center. The sample was placed in the furnace and heated. The sample was exposed to a laser beam which was directed to a detector for analysis.

X-ray diffraction testing of Metmounts was performed in Cell 9. The samples were brought into the cell through pass-through ports from Cell 4 and the crystalline structure of the specimens were analyzed.(2)

3.0 PROCESS DESCRIPTION

Repackaging of the waste containers will be performed in the MTC, HEC, and LLC in Building JN-1. The containers will be transferred into these areas for unpacking, sorting, and packaging. Figure 3-1 summarizes the process used to repackage this waste.C019,C023

The MTC will be used primarily for unloading and segregating the inventory of drums generated during the clean-up of the HEC and CAA. In addition, the drum compactor in the MTC may be used to compact the waste during packaging. The HEC will be used primarily to unload and repack the waste stored in hoppers. A forklift and the overhead crane will be used to place the hoppers in the HEC for unloading. The LLC will be used primarily to repackage the berry can inventories including the berry cans from the clean-up of the HLC and the cans of waste recently repackaged from the clean-up of the Alpha-Gamma Cells.C023

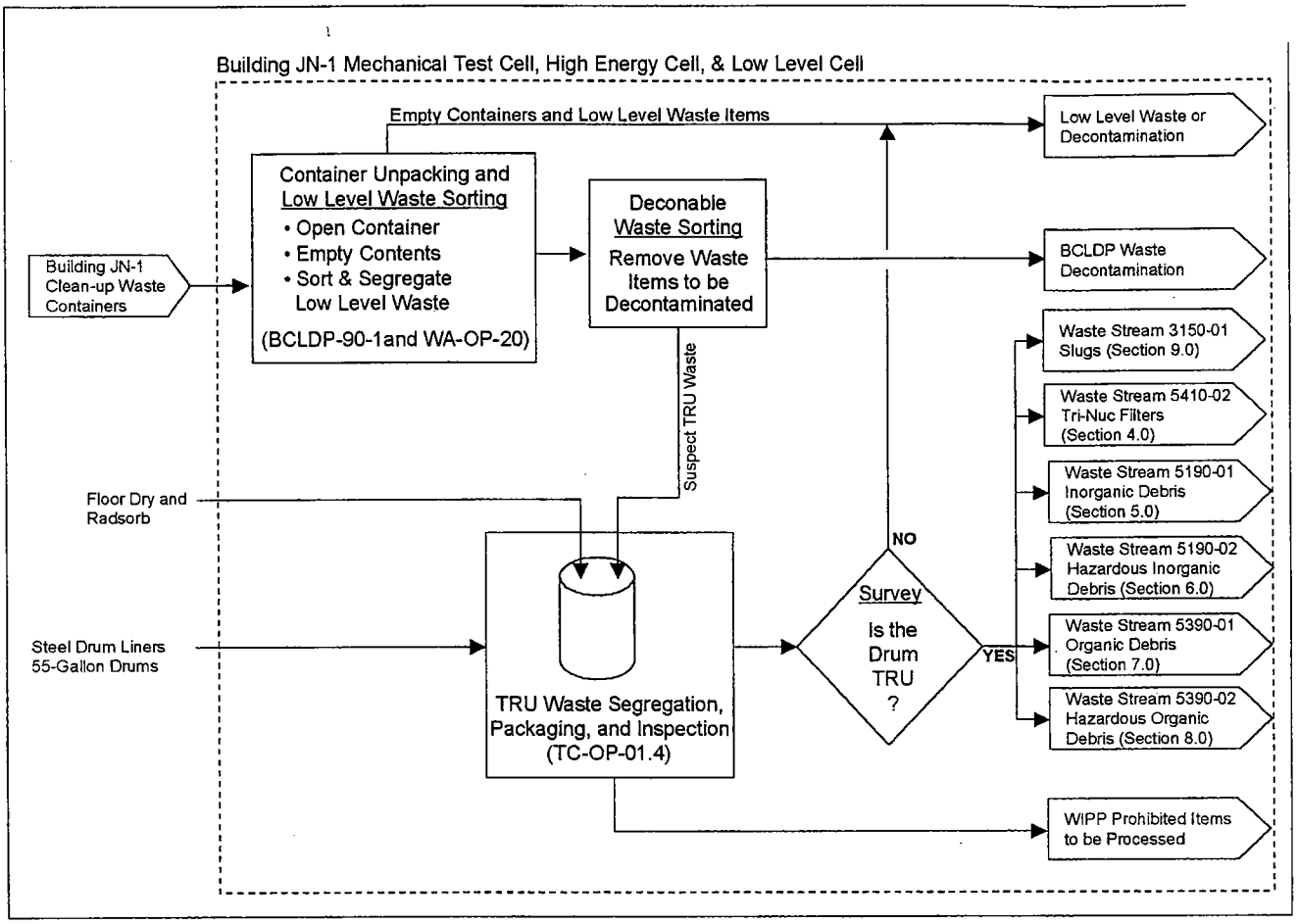

Figure 3-1. Repackaging of JN-1 Clean-Up Waste Containers

Once the containers have been opened, the contents will be transferred onto sorting tables. Low level waste materials will be segregated and managed in accordance with BCLDP-90-1, *The BCLDP Low-Level Waste Certification Plan*[5], and WA-OP-20, *Identification, Segregation, Separation and Documentation of Low Level and Radioactive Mixed Waste.*[10]

Waste meeting the acceptance criteria of WA-OP-061, *Operation and Maintenance of the Alkota Pressure Washer*, will be segregated and staged for decontamination by pressure washing or other decontamination process. Hazardous wastes that can be decontaminated (i.e., light bulbs and lead metal) will be separated for additional processing. The remaining waste will be packaged into UN/1A2/X400/S/99 drums with .105 inch steel drum liners. Each liner lid and drum shall be equipped with a Nucfil-013 drum filter installed per WA-OP-006, *Procurement and Inspections of Packagings for Hazardous Materials Shipments*. No other confinement layers shall be used in the packaging of these waste streams. During packaging the waste will be inspected in accordance with TC-OP-01.4, *Segregation and Packaging of TRU Waste,* to verify AK and identify prohibited items. Any discovered prohibited items (e.g., liquids, compressed gases, and pyrophoric materials) will be segregated and are not eligible for disposal at WIPP without further processing.[4],[9],D009,U023

Based on a review of the inventory, six potential TRU waste streams have been identified; Tri-Nuc Filters (Section 4.0), Inorganic Debris (Section 5.0), Hazardous Inorganic Debris (Section 6.0), Organic Debris (Section 7.0), Hazardous Organic Debris (Section 8.0), and Slugs (Section 9.0). Volume reduction, including compaction, will be performed to minimize the number of containers generated by this process. Even though these waste materials should be dry, 5 to 10 pounds of absorbent material will be added to the bottom of the liners as a precaution to absorb any liquid that may be generated from condensation or dewatering.[C020,C021,D009,P025,U022]

As the liners are placed in 55-gallon drums, each drum will be surveyed to determine if the package is TRU in accordance with DD-98-04, *Waste Characterization, Classification, and Shipping Support Technical Basis.* [(6)] The containers determined to be low level will be managed in accordance with BCLDP-90-1, *The BCLDP Low-Level Waste Certification Plan.*[(5)]

4.0 TRU-NUC FILTERS

Waste Stream ID: 5410-02
Generation Building: Building JN-1; MTC, HEC, and LLC[C019,C023]
Waste Stream Volume (Projected): 0.4 m^3 [C021]
Generation Dates (Projected): October 1999 – December 1999
EPA Hazardous Waste Numbers: None[D005,D006,D010]
Radionuclides: JN-1 Pool Cleanup Isotopic Mix[(D008)]
TRUCON Content Codes: SQ121 (CH-TRU), BC321A (RH-TRU)
Summary Category: S5000[(7)]
Waste Matrix Code: S5410[(7)]
Waste Matrix Code Group: Filters

4.1 Waste Stream Description

The Tri-Nuc filters cartridges were generated during repackaging of the waste materials generated from the change out of filter cartridges from the underwater vacuum system used to clean the surfaces and water of the Transfer/Storage Pool. This stream includes Tri-Nuc filter cartridges generated during this process. Table 4-1 presents the waste matrix code and waste material parameters for this waste stream.[C019,C022,P045]

Table 4-1. Tri-Nuc Filter Waste Matrix.[C021,C022]

Waste Stream	Waste Matrix Code	Waste Material Parameters	Weight %
5410-02, Tri-Nuc Filters	S5410, Composite Filter Debris	Iron-based Metals/Alloys	47%
		Aluminum-based Metals/Alloys	<1%
		Plastics	41%
		Other Inorganic Materials	6%
		Organic Matrix	6%

Waste Stream 5410-02, Tri-Nuc Filters: This waste consists of filter cartridges used in the underwater vacuum system for cleaning the surfaces and filtering the water of the Transfer/Storage Pool. The cartridges are 30" long and 6" in diameter and consist of media enclosed within a stainless steel screen shroud, and aluminum screen reinforced plastisol end caps. The filter media is composed of melt brown reinforced typar (polypropylene fibers), and is available in 0.3, 1, 5, 10, and 20 micron mesh sizes. Weighted stainless steel stips run the length of the filter and are bonded to the end caps. The number of strips varies with the filter size, from 2 strips with 0.3 microns to 3 with 20 microns. The waste matrix will also include Floor Dry (diatomaceous earth) and Radsorb (50:50 mix) added to each liner.[C019, C020,P046,U022]

4.2 Characterization Rationale

The filter wastes are characterized based on knowledge of the material and knowledge of the processes generating the waste, and visual examination. This section provides a RCRA hazardous and TSCA waste determination for this waste stream.

4.2.1 Characteristic Waste

Based on the acceptable knowledge documentation reviewed, the materials do not exhibit the characteristics of ignitability (40 CFR 261.21), corrosivity (40 CFR 261.22), reactivity (40 CFR 261.23), or toxicity for organics or metals (40 CFR 261.24)[D005, D006,D010]

Ignitability: The materials in this waste stream do not meet the definition of ignitability as defined in 40 CFR 261.21. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, any free liquid would be aqueous and absorbents have been added to the filters to absorb any liquids that may be generated due to condensation or dewatering. This material will not cause fire through friction, absorption of moisture, or spontaneous chemical changes. This material is not a compressed gas as defined in 49 CFR 173.151. This material is not an oxidizer as defined in 49 CFR 173.300. The materials in this waste stream are therefore not ignitable wastes (D001).

Corrosivity: The materials in this waste stream do not meet the definition of corrosivity as defined in 40 CFR 261.22. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, absorbents have been added to the filters to absorb any liquids that may be generated due to condensation or dewatering. The materials in this waste stream are therefore not corrosive wastes (D002).

Reactivity: The materials in this waste stream do not meet the definition of reactivity as defined in 40 CFR 261.23. The materials are stable and will not undergo violent chemical change. The materials will not react violently with water, form potentially explosive mixtures with water, or generate toxic gases, vapors, or fumes when mixed with water. The materials do not contain cyanides or sulfides, and are not capable of detonation or explosive reaction. Visual examination is performed to ensure reactive materials are not added to containers during repackaging. The materials in this waste stream are therefore not reactive wastes (D003).

Toxicity: The materials in this waste stream should not meet the definition of toxicity as defined in 40 CFR 261.24. The toxicity characteristic contaminants fall into one of two categories: metals and organics. Organic compounds include halogenated and nonhalogenated solvents, pesticides, herbicides, and other toxic compounds. The sources of AK reviewed identified no source of toxic compounds except for a single sample of pool water that detected lead at a concentration of less than 10 parts per billion.[D005] To verify that TC metals were not present above the regulatory threshold, a composite sample was taken of the filter and resin waste streams (5410-01 & 3211-01). The TCLP concentration for RCRA metals in the resins and filters was at least one order of magnitude below the TC

regulatory level for detected metals. Therefore, the materials in this waste stream, 5410-02, do not exhibit the characteristic of toxicity (D004-D043).[D006,D010]

4.2.2 Listed Hazardous Waste

The material in this waste stream is not, or was not mixed with, a waste listed in 40 CFR 261, Subpart D as a hazardous waste from non-specific sources (40 CFR 261.31), as a hazardous waste from specific sources (40 CFR 261.32), or as a discarded commercial chemical product, an off-specification species, a container residue, or a spill residue thereof (40 CFR 261.33). These filters did not come in contact with listed solvents. Therefore, this waste stream is not a listed hazardous waste.

4.2.3 TSCA Waste Determination

The material in this waste stream is not TSCA regulated waste as defined in 40 CFR 761. Review of AK identified no possible source of PCB contamination of this waste. Therefore, waste stream 5410-02, is not a TSCA regulated waste.

5.0 INORGANIC DEBRIS

Waste Stream ID: 5190-01
Generation Building: Building JN-1; MTC, HEC, and LLC[C019,C023]
Waste Stream Volume (Projected): 3.4 m^3 [C021,C024,D009]
Generation Dates (Projected): October 1999 – December 2001[D009]
EPA Hazardous Waste Numbers: None[(2)]
Radionuclides: JN-1 Standard Isotopic Mix[(6)]
TRUCON Content Codes: SQ122 (CH-TRU), BC321A, BC322A (RH-TRU)
Summary Category: S5000[(7)]
Waste Matrix Code: S5190[(7)]
Waste Matrix Code Group: Heterogeneous Debris Waste

5.1 Waste Stream Description

Inorganic debris consists of glass and metal materials generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. This non-hazardous stream consists of materials that have been visually examined to exclude items that are coated, caked, or discolored with potentially hazardous substances. Table 5-1 presents the waste matrix code and waste material parameters for this waste stream.[(2),C019,D009]

Table 5-1. Inorganic Debris Waste Matrix.[C021,C024,D009]

Waste Stream	Waste Matrix Code	Waste Material Parameters	Weight % (Range)
5190-01, Inorganic Debris	S5190, Inorganic Debris	Other Inorganic Material	2-40%
		Iron-based Metal/Alloys	50-90%
		Aluminum-based Metal/Alloys	0-44%
		Plastic	0-4%
		Rubber	<1%
		Other Metals	0-23%

Waste Stream 5190-01, Inorganic Debris: This waste consists primarily of glass and metal debris generated during research and development activities conducted in Building JN-1. Glass debris includes laboratory glassware, windows, light lenses, and various glass apparatus. Appendices A, B, C, and D list items that may be contained in this waste stream. Metal debris determined to be unsuitable for decontamination will also be included in this waste stream. Metal items may include deteriorated berry cans, sample tubes, cable, wire, planchets, sign, valves, piping, strapping, tools, foil, sheeting, fixtures, equipment, hardware (e.g. nuts, bolts, brackets, etc), fuel rod cladding, metmounts, and firebrick (containing asbestos). Metals of construction include stainless steel, aluminum, iron, copper, beryllium, and zirconium (Zircaloy). The waste matrix will also include Floor Dry added during repackaging to absorb any liquid from condensation or dewatering.[(2),C019,C020,C024,C049,D009,U022]

5.2 Characterization Rationale

Inorganic debris wastes are characterized based on knowledge of the material and knowledge of the processes generating the waste, and visual examination. This section provides a RCRA hazardous and TSCA waste determination for this waste stream.

5.2.1 Characteristic Waste

Based on the acceptable knowledge documentation reviewed, the materials do not exhibit the characteristics of ignitability (40 CFR 261.21), corrosivity (40 CFR 261.22), reactivity (40 CFR 261.23) or toxicity (40 CFR 261.24).[2]

Ignitability: The materials in this waste stream do not meet the definition of ignitability as defined in 40 CFR 261.21. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, absorbents have been added to absorb any liquids that may be generated due to condensation or dewatering. This material will not cause fire through friction, absorption of moisture, or spontaneous chemical changes. This material is not a compressed gas as defined in 49 CFR 173.151. This material is not an oxidizer as defined in 49 CFR 173.300. The materials in this waste stream are therefore not ignitable wastes (D001).

Corrosivity: The materials in this waste stream do not meet the definition of corrosivity as defined in 40 CFR 261.22. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. This waste contains absorbents that have been added to absorb any liquids that may be generated due to condensation or dewatering. The materials in this waste stream are therefore not corrosive wastes (D002).

Reactivity: The materials in this waste stream do not meet the definition of reactivity as defined in 40 CFR 261.23. The materials are stable and will not undergo violent chemical change. The materials will not react violently with water, form potentially explosive mixtures with water, or generate toxic gases, vapors, or fumes when mixed with water. The materials do not contain cyanides or sulfides, and are not capable of detonation or explosive reaction. The materials are not liquid and visual examination is performed to ensure reactive materials are not added to containers during repackaging. The materials in this waste stream are therefore not reactive wastes (D003).

Toxicity: The materials in this waste stream do not meet the definition of toxicity as defined in 40 CFR 261.24. The toxicity characteristic contaminants fall into one of two categories: metals and organics. Organic compounds include halogenated and nonhalogenated solvents, pesticides, herbicides, and other toxic compounds. Inorganic debris are visually examined prior to or during repackaging to ensure no residue is present, or these wastes meet the definition of empty container (40 CFR 261.7). Visual examination in conjunction with AK verifies the absence of leaded glass, light bulbs, and TC metals (e.g. lead bricks). Therefore, waste stream 5190-01 does not exhibit the characteristic of toxicity (D004-D043).

5.2.2 Listed Hazardous Waste

The material in this waste stream is not, or was not mixed with, a waste listed in 40 CFR 261, Subpart D as a hazardous waste from non-specific sources (40 CFR 261.31), as a hazardous waste from specific sources (40 CFR 261.32), or as a discarded commercial chemical product, an off-specification species, a container residue, or a spill residue thereof (40 CFR 261.33). Inorganic debris are visually examined prior to or during repackaging to ensure no residue is present, or these wastes meet the definition of empty container (40 CFR 261.7). Any contact with listed solvents is considered incidental. Therefore, this waste stream is not a listed hazardous waste. [2]

5.2.3 TSCA Waste Determination

The material in this waste stream is not TSCA regulated waste as defined in 40 CFR 761. Review of AK identified no possible source of PCB contamination of this waste. Therefore, waste stream 5190-01, is not a TSCA regulated waste.

6.0 HAZARDOUS INORGANIC DEBRIS

Waste Stream ID: 5190-02
Generation Building: Building JN-1; MTC, HEC, and LLC[C019,C023]
Waste Stream Volume (Projected): 5.4 m^3 [C021,C024,D009]
Generation Dates (Projected): October 1999 – December 2001[D009]
EPA Hazardous Waste Numbers: D005, D007, D008, D009, D011, F001, F002, F003, F005[(2), C001,C006,C011,C013,D009,P001,P006,P019,P024,P032,U021]

Radionuclides: JN-1 Standard Isotopic Mix[(6)]
TRUCON Content Codes: SQ122 (CH-TRU), BC321A, BC322A (RH-TRU)
Summary Category: S5000[(7)]
Waste Matrix Code: S5190[(7)]
Waste Matrix Code Group: Heterogeneous Debris Waste

6.1 Waste Stream Description

Hazardous inorganic debris consists of the materials generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. Table 6-1 presents the waste matrix code and waste material parameters for this waste stream.[(2), C019,D009]

Table 6-1. Hazardous Inorganic Debris Waste Matrix.[C021,C024,D009]

Waste Stream	Waste Matrix Code	Waste Material Parameters	Weight % (Range)
5190-02, Hazardous Inorganic Debris	S5190, Inorganic Debris	Other Inorganic Material	2-20%
		Iron-Based Metal/Alloys	11-89%
		Aluminum-based Metal/Alloys	1-86%
		Plastics	0-4%
		Rubber	<1%
		Other Metals	0-8%

Waste Stream 5190-02, Hazardous Inorganic Debris: This waste consists of glass and metal debris which is visibly contaminated with hazardous waste, generated during research and development activities conducted in Building JN-1. Glass debris includes broken laboratory glassware, windows, light bulbs, leaded glass windows, and various glass apparatus. This stream may also include metal items such as berry cans, sample tubes, cable, wire, planchets, signs, valves, piping, strapping, tools, foil, sheeting, fixtures, equipment (e.g. pumps, motors, etc. which have had all oil or any other free liquids removed), hardware (e.g. nuts, bolts, brackets, etc), fuel rod cladding, metmounts, and lead lined tubing. Metals of construction include stainless steel, aluminum, iron, copper, beryllium, lead, and zirconium (Zircaloy). Appendices A, B, C, and D list items that may be packaged as part of this waste stream. The waste matrix will also include Floor Dry added during repackaging to absorb any liquid from condensation or dewatering.[(2), C019,C020,C024,C049,D009,U022]

6.2 Characterization Rationale

Hazardous inorganic debris wastes are characterized based on knowledge of the material and knowledge of the processes generating the waste, and visual examination. This section provides a RCRA hazardous and TSCA waste determination for this waste stream.

6.2.1 Characteristic Waste

Based on the acceptable knowledge documentation reviewed, the materials do not exhibit the characteristics of ignitability (40 CFR 261.21), corrosivity (40 CFR 261.22), reactivity (40 CFR 261.23), or toxicity for organics (40 CFR 261.24), but may exhibit the characteristics of toxicity for metals due to surface contamination or the materials of construction. [2]

Ignitability: The materials in this waste stream do not meet the definition of ignitability as defined in 40 CFR 261.21. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, absorbents have been added to absorb any liquids that may be generated due to condensation or dewatering. This material will not cause fire through friction, absorption of moisture, or spontaneous chemical changes. This material is not a compressed gas as defined in 49 CFR 173.151. This material is not an oxidizer as defined in 49 CFR 173.300. The materials in this waste stream are therefore not ignitable wastes (D001).

Corrosivity: The materials in this waste stream do not meet the definition of corrosivity as defined in 40 CFR 261.22. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. This waste contains absorbents that have been added to absorb any liquids that may be generated due to condensation or dewatering. The materials in this waste stream are therefore not corrosive wastes (D002).

Reactivity: The materials in this waste stream do not meet the definition of reactivity as defined in 40 CFR 261.23. The materials are stable and will not undergo violent chemical change. The materials will not react violently with water, form potentially explosive mixtures with water, or generate toxic gases, vapors, or fumes when mixed with water. The materials do not contain cyanides or sulfides, and are not capable of detonation or explosive reaction. The materials are not liquid and visual examination is performed to ensure reactive materials are not added to containers during repackaging. The materials in this waste stream are therefore not reactive wastes (D003).

Toxicity: The materials in this waste stream may meet the definition of toxicity as defined in 40 CFR 261.24. The toxicity characteristic contaminants fall into one of two categories: metals and organics. Organic compounds include halogenated and nonhalogenated solvents, pesticides, herbicides, and other toxic compounds. This waste group may exhibit the characteristic of toxicity for barium, chromium, lead, mercury, and silver.

Barium sulfate, chromic acid, potassium dichromate, mercury, and silver nitrate were used in various processes in Building JN-1. The analytical data for leaded glass windows indicates

that lead as well as barium are above the toxicity characteristic level. Metal debris with lead exhibit the characteristic of toxicity for lead. Inorganic debris containing lead, or barium, or debris visibly contaminated, are potentially contaminated with these materials. Therefore, waste stream 5190-02 is assigned EPA Hazardous Waste Numbers D005, D007, D008, D009, and D011 since a representative sample of this waste cannot be obtained for verification purposes.[C001,C011,C013,P001,P006,U021]

Benzene, carbon tetrachloride, methyl ethyl ketone, and trichloroethylene were used in Building JN-1. These compounds were typically used as solvents. Therefore visibly contaminated inorganic debris is regulated as a listed hazardous waste and not a characteristic waste since these compounds are specifically addressed in the treatment standards for listed hazardous waste.

6.2.2 Listed Hazardous Waste

The material in this waste stream has been characterized as a listed hazardous waste because it may have been mixed with spent solvents listed in 40 CFR 261, Subpart D. Based on acceptable knowledge documentation reviewed the material is not, or was not mixed with, a hazardous waste from specific sources (40 CFR 261.32), or as a discarded commercial chemical product, an off-specification species, a container residue, or a spill residue thereof (40 CFR 261.33). [(2)]

Carbon tetrachloride, 1,1,1-trichloroethane, trichloroethylene, acetone, methanol, benzene, and methyl ethyl ketone were used in laboratory operations for cleaning and degreasing. Visibly contaminated inorganic debris are potentially contaminated with these spent solvents. Therefore waste stream 5190-02 is assigned EPA Hazardous waste numbers F001, F002, and F005.
C001,C006,C011,P019,P024,P032,U021

This waste may be contaminated with acetone and methanol, used for cleaning and degreasing. Since the waste does not contain liquid and is not characteristic for ignitability, EPA hazardous waste number F003 is not applicable as acetone and methanol are listed solely for ignitability.[(2),C001,C011,D009]

6.2.3 TSCA Waste Determination

The material in this waste stream is not TSCA regulated waste as defined in 40 CFR 761. Review of AK identified no possible source of PCB contamination of this waste. Therefore, waste stream 5190-02, is not a TSCA regulated waste.

7.0 ORGANIC DEBRIS

Waste Stream ID: 5390-01
Generation Building: Building JN-1; MTC, HEC, and LLC[C019,C023]
Waste Stream Volume (Projected): 1.2 m^3 [C021,C024,D009]
Generation Dates (Projected): October 1999 – December 2001[D009]
EPA Hazardous Waste Numbers: None[(2)]
Radionuclides: JN-1 Standard Isotopic Mix[(6)]
TRUCON Content Codes: SQ121 (CH-TRU), BC321A (RH-TRU)
Summary Category: S5000[(7)]
Waste Matrix Code: S5390[(7)]
Waste Matrix Code Group: Combustibles

7.1 Waste Stream Description

Organic debris consists of the materials generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. This non-hazardous stream consists of materials that have been visually examined to exclude items that are coated, caked, or discolored with potentially hazardous substances. Table 7-1 presents the waste matrix code and waste material parameters for this waste stream.[(2),C019,D009]

Table 7-1. Organic Debris Waste Matrix.[C021,C024,D009]

Waste Stream	Waste Matrix Code	Waste Material Parameters	Weight % (Range)
5390-01, Organic Debris	S5390, Organic Debris	Plastic	52-74%
		Rubber	10-17%
		Cellulosics	7-20%
		Concrete	0-1%
		Iron-Based Metal/Alloys	0-2%
		Aluminum-based Metal/Alloys	0-1%
		Other Metals	<1%
		Organic Matrix	3-4%
		Other Inorganic Material	3-4%

Waste Stream 5390-01, Organic Debris: This waste consists primarily of plastic or rubber debris material including polyethylene, polyvinyl chloride, nylon, styrofoam, Tygon, plexiglass, and neoprene. Wood debris with no signs of hazardous waste contamination may also be included. Waste items may include arm bags, non-deteriorated sheeting, hose/tubing, respirators, boots, rain suits, rubber gloves, floor mats, o-rings, electrical cords, safety glasses, plexiglass panels, plywood, pallets, clean cloth towels, clean cardboard, and clean paper used in the repackaging process. Appendices A, B, C, and D list items that may be packaged as part of this waste stream. The waste matrix will also include Floor Dry (diatomaceous earth) and Radsorb added during repackaging to absorb any liquid from condensation or dewatering.[(2),C019,C020,C024,C049,D009,U022]

7.2 Characterization Rationale

Organic debris wastes are characterized based on knowledge of the material and knowledge of the processes generating the waste, and visual examination. This section provides a RCRA hazardous and TSCA waste determination for this waste stream.

7.2.1 Characteristic Waste

Based on the acceptable knowledge documentation reviewed, the materials do not exhibit the characteristics of ignitability (40 CFR 261.21), corrosivity (40 CFR 261.22), reactivity (40 CFR 261.23) or toxicity (40 CFR 261.24). [2]

Ignitability: The materials in this waste stream do not meet the definition of ignitability as defined in 40 CFR 261.21. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, absorbents have been added to absorb any liquids that may be generated due to condensation or dewatering. This material will not cause fire through friction, absorption of moisture, or spontaneous chemical changes. This material is not a compressed gas as defined in 49 CFR 173.151. This material is not an oxidizer as defined in 49 CFR 173.300. The materials in this waste stream are therefore not ignitable waste (D001).

Corrosivity: The materials in this waste stream do not meet the definition of corrosivity as defined in 40 CFR 261.22. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. This waste contains absorbents that have been added to absorb any liquids that may be generated due to condensation or dewatering. The materials in this waste stream are therefore not corrosive wastes (D002).

Reactivity: The materials in this waste stream do not meet the definition of reactivity as defined in 40 CFR 261.23. The materials are stable and will not undergo violent chemical change. The materials will not react violently with water, form potentially explosive mixtures with water, or generate toxic gases, vapors, or fumes when mixed with water. The materials do not contain cyanides or sulfides, and are not capable of detonation or explosive reaction. The materials are not liquid and visual examination is performed to ensure reactive materials are not added to containers during repackaging. The materials in this waste stream are therefore not reactive wastes (D003).

Toxicity: The materials in this waste stream do not meet the definition of toxicity as defined in 40 CFR 261.24. The toxicity characteristic contaminants fall into one of two categories: metals and organics. Organic compounds include halogenated and nonhalogenated solvents, pesticides, herbicides, and other toxic compounds. Organic debris are visually examined prior to or during repackaging to ensure no residue is present, or these wastes meet the definition of empty container (40 CFR 261.7). Visual examination also verifies the absence of leaded gloves, and TC metals (e.g. lead bricks).Therefore, waste stream 5390-01 does not exhibit the characteristic of toxicity (D004-D043).

7.2.2 Listed Hazardous Waste

The material in this waste stream is not, or was not mixed with, a waste listed in 40 CFR 261, Subpart D as a hazardous waste from non-specific sources (40 CFR 261.31), as a hazardous waste from specific sources (40 CFR 261.32), or as a discarded commercial chemical product, an off-specification species, a container residue, or a spill residue thereof (40 CFR 261.33). Organic debris are visually examined prior to or during repackaging to ensure no residue is present, or these wastes meet the definition of empty container (40 CFR 261.7). Any contact with listed solvents is considered incidental. Therefore, this waste stream is not a listed hazardous waste. [2]

7.2.3 TSCA Waste Determination

The material in this waste stream is not TSCA regulated waste as defined in 40 CFR 761. Review of AK identified no possible source of PCB contamination of this waste. Therefore, waste stream 5390-01, is not a TSCA regulated waste.

8.0 HAZARDOUS ORGANIC DEBRIS

Waste Stream ID: 5390-02
Generation Building: Building JN-1; MTC, HEC and LLC[C019,C023]
Waste Stream Volume (Projected): 6.6 m^3 [C021,C024,D009]
Generation Dates (Projected): October 1999 – December 2001[D009]
EPA Hazardous Waste Numbers: D005, D007, D008, D009, D011, F001, F002, F005[(2), C001,C006,C011,C013,D009,P019,P024,P032]
Radionuclides: JN-1 Standard Isotopic Mix[(6)]
TRUCON Content Codes: SQ121 (CH-TRU), BC321A (RH-TRU)
Summary Category: S5000[(7)]
Waste Matrix Code: S5390[(7)]
Waste Matrix Code Group: Combustibles

8.1 Waste Stream Description

Hazardous organic debris consists of the materials generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. Table 8-1 presents the waste matrix code and waste material parameters for this waste stream.[(2),C019,D009]

Table 8-1. Hazardous Organic Debris Waste Matrix.[C021,C024,D009]

Waste Stream	Waste Matrix Code	Waste Material Parameters	Weight % (Range)
5390-02, Hazardous Organic Debris	S5390, Organic Debris	Plastic	12-68%
		Cellulosics	19-63%
		Rubber	0-22%
		Other Inorganic Material	4-20%
		Iron-Based Metal/Alloys	0-7%
		Aluminum-Based Metal	0-5%
		Other Metals	0-4%
		Organic Matrix	2-9%

Waste Stream 5390-02, Hazardous Organic Debris: This waste consists of paper or cloth debris materials, including canvas, leather, porous materials, and materials such as plastic, wood, or rubber debris including polyethylene, polyvinyl chloride, nylon, styrofoam, Tygon, plexiglass, and neoprene which are visibly contaminated with hazardous waste (sludge, powder, or caked material). Waste items may include janitorial and spill cleanup materials (e.g. wipes, rags, mop heads, protective clothing), arm bags, vacuum bags, HEPA filters, blue prefilter pads[C023], respirator cartridges, plywood, pallets, packing material, hose/tubing, cardboard, insulated wire, ALARA paint, masking tape, rope, paint chips, small quantities of, soda ash, or sodium bicarbonate, deteriorated plastic bags and sheeting, and small quantities of solidified mineral oil. The mineral oil, leaking from the seal of Window 6 in the LLC, is solidified with N990 Petrobond, a non-hazardous organic

absorbant.[D009,P025] Appendix A, lists items designated to be packaged as part of this waste stream. The waste matrix will also include Floor Dry(diatomaceous earth) and Radsorb (50:50 mix) added during repackaging to absorb any liquids from condensation or dewatering.[(2),C019,C020,C024,C048,C049,D009,P025,U022]

8.2 Characterization Rationale

Hazardous organic debris wastes are characterized based on knowledge of the material, knowledge of the processes generating the waste, and visual examination. This section provides a RCRA hazardous and TSCA waste determination for this waste stream.

8.2.1 Characteristic Waste

Based on the acceptable knowledge documentation reviewed, the materials do not exhibit the characteristics of ignitability (40 CFR 261.21), corrosivity (40 CFR 261.22), reactivity (40 CFR 261.23) or toxicity for organics (40 CFR 261.24), but may exhibit the characteristics of toxicity for metals due to surface contamination.[(2)]

Ignitability: The materials in this waste stream do not meet the definition of ignitability as defined in 40 CFR 261.21. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, absorbents have been added to absorb any liquids that may be generated due to condensation or dewatering. This material will not cause fire through friction, absorption of moisture, or spontaneous chemical changes. This material is not a compressed gas as defined in 49 CFR 173.151. This material is not an oxidizer as defined in 49 CFR 173.300. The materials in this waste stream are therefore not ignitable waste (D001).

Corrosivity: The materials in this waste stream do not meet the definition of corrosivity as defined in 40 CFR 261.22. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, absorbents are added to wastes having the potential of generating free liquids (e.g., wet wipes). The materials in this waste stream are therefore not corrosive wastes (D002).

Reactivity: The materials in this waste stream do not meet the definition of reactivity as defined in 40 CFR 261.23. The materials are stable and will not undergo violent chemical change. The materials will not react violently with water, form potentially explosive mixtures with water, or generate toxic gases, vapors, or fumes when mixed with water. The materials do not contain cyanides or sulfides, and are not capable of detonation or explosive reaction. The materials are not liquid and visual examination is performed to ensure reactive materials are not added to containers during repackaging. The materials in this waste stream are therefore not reactive wastes (D003).

Toxicity: The materials in this waste stream may meet the definition of toxicity as defined in 40 CFR 261.24. The toxicity characteristic contaminants fall into one of two categories: metals and organics. Organic compounds include halogenated and nonhalogenated solvents,

pesticides, herbicides, and other toxic compounds. This waste group may exhibit the characteristic of toxicity for barium, chromium, lead, mercury, and silver.

Barium sulfate, chromic acid, potassium dichromate, mercury, and silver nitrate were used in various processes in Building JN-1. Leaded gloves contain lead above the toxicity characteristic level. Paper, cloth, porous materials, or visibly contaminated wood, plastic or rubber debris are potentially contaminated with these materials. Therefore, waste stream 5390-02 is assigned EPA Hazardous Waste Numbers D005, D007, D008, D009, and D011 since a representative sample of this waste cannot be obtained for verification purposes.[(2),C001,C011,C013]

Benzene, carbon tetrachloride, methyl ethyl ketone, and trichloroethylene were used in Building JN-1. These compounds were typically used as solvents. Therefore contaminated organic debris is regulated as a listed hazardous waste and not a characteristic waste since these compounds are specifically addressed in the treatment standards for listed hazardous waste.

8.2.2 Listed Hazardous Waste

The material in this waste stream is characterized as a listed hazardous waste because it may have been mixed with spent solvents listed in 40 CFR 261, Subpart D. Based on acceptable knowledge documentation reviewed the material is not, or was not mixed with, a hazardous waste from specific sources (40 CFR 261.32), or as a discarded commercial chemical product, an off-specification species, a container residue, or a spill residue thereof (40 CFR 261.33).[(2)]

Carbon tetrachloride, 1,1,1-trichloroethane, trichloroethylene, acetone, methanol, benzene, and methyl ethyl ketone were used in laboratory operations for cleaning and degreasing. This organic debris is potentially contaminated with these spent solvents. Therefore waste stream 5390-02 is assigned EPA Hazardous waste numbers F001, F002, and F005.[C001,C006,C011,P019,P024,P032]

This waste may be contaminated with acetone and methanol, used for cleaning and degreasing. Since the waste does not contain liquid and is not characteristic for ignitability, EPA hazardous waste number F003 is not applicable as acetone and methanol are listed solely for ignitability.[(2),C001,C011,D009]

8.2.3 TSCA Waste Determination

The material in this waste stream is not TSCA regulated waste as defined in 40 CFR 761. Review of AK identified no possible source of PCB contamination of this waste. Therefore, waste stream 5390-02, is not a TSCA regulated waste.

9.0 SLUGS

Waste Stream ID: 3150-01
Generation Building: Building JN-1; MTC, HEC, and LLC[C023,(2)]
Waste Stream Volume (Projected): 0.4 m^3 [C024]
Generation Dates (Projected): October 1999 – December 1999
EPA Hazardous Waste Numbers: D004, D005, D006, D007, D008, D009, D011[D005,D006]

Radionuclides: JN-1 Standard Isotopic Mix[(6)]
TRUCON Content Codes: SQ122 (CH-TRU), BC314 (RH-TRU)
Summary Category: S3000[(7)]
Waste Matrix Code : S3150[(7)]
Waste Matrix Code Group: Solidified Inorganics

9.1 Waste Stream Description

Slugs consist of the solidified acid solutions containing dissolved fuel materials generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. Table 4-1 presents the waste matrix code and waste material parameters for this waste stream.[C024]

Table 9-1. Slugs Waste Matrix.[C021,C022]

Waste Stream	Waste Matrix Code	Waste Material Parameters	Weight %
3150-01, Slugs	S3150, Solidified Homogenous Solid	Inorganic Matrix	100%
		Plastics (residual styrofoam)	<1%

Waste Stream 3150-01, Slugs: Slugs were produced in Alpha-Gamma Cell 7 from dissolving of burnup fuel specimens in an acid solution which was then diluted several times and mixed with cement and water and allowed to solidify in styrofoam cups. The slugs will contain only limited amounts of dissolved fuel because of the dilution.[(2)] . Appendices B and D identify hoppers and cans containing the burnup slugs. The waste matrix will also include Floor Dry added during repackaging to absorb any liquid from condensation or dewatering. The stryrofoam cups will be segregated from the slugs prior to final packaging.[C019,C023,C024]

9.2 Characterization Rationale

The slugs are characterized based on knowledge of the material and knowledge of the processes generating the waste, and visual examination. This section provides a RCRA hazardous and TSCA waste determination for this waste stream.

9.2.1 Characteristic Waste

Based on the acceptable knowledge documentation reviewed, the materials do not exhibit the characteristics of ignitability (40 CFR 261.21), corrosivity (40 CFR 261.22), reactivity (40 CFR 261.23), or toxicity for organics or metals (40 CFR 261.24), however D004, D005, D006, D007, D008, D009, and D011 have been conservatively assigned due to these constituents being detected at low concentrations in the pool water and supporting analytical data.[D005 D006]

Ignitability: The materials in this waste stream do not meet the definition of ignitability as defined in 40 CFR 261.21. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, any free liquid would be aqueous and absorbents have been added to the waste to absorb any liquids that may be generated due to condensation or dewatering. This material will not cause fire through friction, absorption of moisture, or spontaneous chemical changes. This material is not a compressed gas as defined in 49 CFR 173.151. This material is not an oxidizer as defined in 49 CFR 173.300. The materials in this waste stream are therefore not ignitable wastes (D001).

Corrosivity: The materials in this waste stream do not meet the definition of corrosivity as defined in 40 CFR 261.22. The materials are not liquid and visual examination is performed to ensure free liquids are not added to containers during repackaging. In addition, absorbents have been added to the waste to absorb any liquids that may be generated due to condensation or dewatering. The materials in this waste stream are therefore not corrosive wastes (D002).

Reactivity: The materials in this waste stream do not meet the definition of reactivity as defined in 40 CFR 261.23. The materials are stable and will not undergo violent chemical change. The materials will not react violently with water, form potentially explosive mixtures with water, or generate toxic gases, vapors, or fumes when mixed with water. The materials do not contain cyanides or sulfides, and are not capable of detonation or explosive reaction. The materials are not liquid and visual examination is performed to ensure reactive materials are not added to containers during repackaging. The materials in this waste stream are therefore not reactive wastes (D003).

Toxicity: The materials in this waste stream should not meet the definition of toxicity as defined in 40 CFR 261.24. The toxicity characteristic contaminants fall into one of two categories: metals and organics. Organic compounds include halogenated and nonhalogenated solvents, pesticides, herbicides, and other toxic compounds. The sources of AK reviewed identified no source of toxic organic compounds. Since there were no sources of AK available to identify the precise composition of the metals and alloys exposed to the acids, the EPA HWNs for barium, cadmium, chromium, lead, mercury, and silver, detected in

the Transfer/Storage pool water, filters, and resins, will be conservatively assigned to this waste stream pending confirmation sampling. Therefore, waste stream 3150-01 is assigned EPA Hazardous Waste Numbers D004, D005, D006, D007, D008, D009, and D011.[D005,D006]

9.2.2 Listed Hazardous Waste

The material in this waste stream is not, or was not mixed with, a waste listed in 40 CFR 261, Subpart D as a hazardous waste from non-specific sources (40 CFR 261.31), as a hazardous waste from specific sources (40 CFR 261.32), or as a discarded commercial chemical product, an off-specification species, a container residue, or a spill residue thereof (40 CFR 261.33). These slugs did not come in contact with listed solvents. Therefore, this waste stream is not a listed hazardous waste.[(2)]

9.2.3 TSCA Waste Determination

The material in this waste stream is not TSCA regulated waste as defined in 40 CFR 761. Review of AK identified no possible source of PCB contamination of this waste. Therefore, waste stream 3150-01, is not a TSCA regulated waste.

10.0 REFERENCES AND AK SOURCES

1. TCP-98-02, *Transuranic Waste Characterization Quality Assurance Project Plan for the BCLDP TRU Waste Certification Program.*

2. TCP-98-03, *Building JN-1 Hot Cell Laboratory Acceptable Knowledge Document.*

3. TC-AP-03.1, *Collection, Review, and Management of Acceptable Knowledge Documentation.*

4. TC-OP-01.4, *Segregation and Packaging of TRU Waste.*

5. BCLDP-90-1, *The BCLDP Low-Level Waste Certification Plan.*

6. DD-98-04, *Waste Characterization, Classification, and Shipping Support Technical Basis.*

7. DOE 1995. *DOE Waste Treatability Group Guidance*. DOE/LLW-217.

8. TCP-98-03.1.1, *Acceptable Knowledge Process Description, Repackaging of JN-1 Transfer/Storage Pool Filter Change-Out Waste.*

9. WA-OP-006, *Procurement and Inspections of Packagings for Hazardous Materials Shipments.*

10. WA-OP-20, *Identification, Segregation, Separation and Documentation of Low Level and Radioactive Mixed Waste.*

TABLE 10-1. Acceptable Knowledge Source Documents

Ref No.	Title / Author	Summary	Date
C001	Group Interview Record of Eugene Sands, Larry Stickel, Harley Toy, Max Berchtold, Mike Failey, and George Kirsch, BCL, conducted by Kevin Peters/Jeff Harrison. WASTREN, Inc.	Interview summary of group interview with Eugene Sands, Larry Stickel, Harley Toy, Max Berchtold, Mike Failey, and George Kirsch. Includes notes taken from a very general discussion of operations in JN-1 including chemical use, flow of materials, general operations by area, radionuclides, waste management, and defense-related projects. The information collected was general and used to focus subsequent AK research.	1998 May 13.
C006	Interview Record of Max Berchtold, BCL, conducted by Kevin Peters. WASTREN, Inc.	Interview summary of interview with Max Berchtold. Documents which areas operations identified in the 1970s brochure (P031) were performed, in addition of how materials were introduced into the cells. The composition of the hydraulic oil used to lift the LLC and HLC doors (no PCBs) was discussed (MSDS attached) verifies carbon tetrachloride and benzene used in early operations.	1998 July 15.
C011	JN-1 Chemical Use Lists. Battelle Columbus Laboratories.	This list of chemicals was compiled by reviewing files containing MSDSs for chemicals found in JN-1. The list of chemicals was reviewed by Max Berchtold and Eugene Sands to identify those chemicals used in hot cells.	1998 July 24.

Ref No.	Title / Author	Summary	Date
C013	Internal correspondence from D. L. Kidd to A. A. Church. EG&G Rocky Flats, Inc.	Analytical data for leachable metals in leaded gloves and leaded glass windows.	1991 March 13.
C019	Interview Record of Scott Kitts, BCL, conducted by Kevin Peters. WASTREN, Inc.	This interview focused on the inventory of drums generated during clean-up operations in the CAA and HEC. In addition, a discussion of the planned methodology to be used to repackage these drums of waste, is included.	1999. April 27.
C020	Letter to AK Record authored by Kevin Peters. WASTREN, Inc.	This letter includes the assumptions used in assigning waste streams to the current drum inventory of materials to be repackaged in the Mechanical Test Cell of Building JN-1. The inventory was derived from Waste Packaging Loading Records (see U022) for 60 drums of waste generated during Building JN-1 cleanup campaigns conducted in the mid 1980s in the CAA and HEC.	1999. May 7.
C021	Letter to AK Record authored by Kevin Peters. WASTREN, Inc.	This letter includes the assumptions and the inventory list used in calculating waste stream volumes and estimating waste material parameter categories for the inventory of drums generated during the clean-up of the HEC and CAA. To determine the total volumes of waste generated for each waste stream, volumes for individual items were calculated	1999. May 7.
C022	Interview Record of Tim Warden, Tri Nuclear Corporation, conducted by Scott Smith. WASTREN, Inc.	Tim Warden a Technical Representative with Tri Nuclear Corporation was interviewed to determine the materials of construction for the Tri-Nuc filters used during the cleaning and draining of the Storage/Transfer Pool in JN-1. Also included are the estimates for the Waste Material Parameters for these filters based on the dissassembly and weighing of the materials by BCLDP personnel.	1999. May 10.
C023	Interview Record of Scott Kitts, David GarberBCL, conducted by Kevin Peters. WASTREN, Inc.	This interview focused on the inventory of containers that will be repackaged in the HEC, LLC, and MTC, including the activities planned for each of the cells. Also includes manufacturer's information of the composition of the PolyKlean Blue filter pads contained in the inventory.	1999. September 20.
C024	Letter to AK Record authored by Kevin Peters. WASTREN, Inc.	This letter includes the assumptions and the inventory lists used in calculating waste stream volumes and estimating waste material parameter categories for the inventory of containers to be repackaged in the MTC, LLC, and HEC. To determine the total volumes of waste generated for each waste stream, volumes for individual items were calculated using the inventory documentation. This information expands of the inventory described in C021.	1999. September 22.
C048	Letter from Pete Erickson to Kevin Peters. Battelle Columbus Laboratories.	Letter describing the identification of white powder in a compacted berry can discovered during repackaging operations in the High Energy Cell. The powder was identified by Larry Stickel as either soda ash or sodium bicarbonate, used in the past for acid neutralization. The material was packaged into the hazardous organic debris waste stream, 5390-02.	1999 December 17.

Ref No.	Title / Author	Summary	Date
C049	Miscellaneous Correspondence from Pete Erickson to Dave Garber. Battelle Columbus Laboratories.	Letters describing the discovery and characterization of miscellaneous materials not anticipated in the Clean-Up Waste Repackaging process description, but discovered during repackaging. Items include insulated wire (packaged into organic debris streams, 5390-01 or 5390-02), a grinding motor and filter media attached to wire mesh (packaged into the hazardous inorganic debris stream, 5190-02), asbestos (packaged into inorganic debris stream, 5190-01), and ALARA paint (packaged into hazardous organic debris stream, 5390-02).	2000 January to 2000 March
D004	Telephone Ineterview Record of Cidney Voth, BCL, conducted by Kevin Peters. WASTREN, Inc.	This interview was conducted to describe the operations involved with the draining of the JN-1 Transfer/Storage Pool Water and to resolve a discrepancy relating to the date when this activity was completed. In an interview with Gene Sands and George Kirsch (C014) the interviewer was informed that the evaporation of the pool was completed in 1989. Based on review of subsequent AK documentation it was determined that this activity was not completed until the mid 1990s. Cidney Voth was interviewed and documentation provided that verified the operation was performed between 1995 and 1997.	1999. April 27.
D005	Letter to AK Record authored by Kevin Peters. WASTREN, Inc.	This letter was written due to the discovery of analytical data of water from the Transfer/Storage pool prior to removal of the water. The data indicates the presence of low concentrations of lead. Based on this data D008 will be conservatively added to the filter and resin waste streams used to filter the water (3211-01,5410-01, and 5410-02).	1999. May 12.
D006	Letter to AK Record authored by Kevin Peters. WASTREN, Inc.	This letter was written to address the detection of RCRA metals in samples taken of the Transfer/Storage poll filters and resins. The data indicates the presence of several RCRA metals. Based upon this data D004, D005, D006, D007, D008, D009, and D011 will be consevatively added to the filter and resin waste streams used to filter the pool water (3211-01, 5410-01, and 5410-02).	1999 June 29.
D008	Letter to AK Record authored by Kevin Peters. WASTREN, Inc.	This letter was written to address the discrepancies between recorded waste packaging and radionucledes as reported in source document reference D007. Actual drum liners used are 110-mil polyethylene. Additional radionuclides including Pu-240, Sr-90, U-233, U-234, U-235, U-236, and U-238 were identified based on further evaluation of the waste. This information will be used to update WIPP and Hanford waste profiles for waste stream 5410-01.01.	2001 January 24
D009	Letter to AK Record authored by Kevin Peters. WASTREN, Inc.	This letter was written to address discrepancies between predicted and actual waste generation parameters for inorganic and organic debris streams (5190-01, 5190-02, 5390-01, and 5390-02). Adjusted waste stream generation dates, volumes, waste material parameter distributions, and TRUCON codes were identified through waste container documentation and interviews with waste generation personnel.	2001 May 25.

Ref No.	Title / Author	Summary	Date
D010	Letter to AK Record authored by Scott Smith. WASTREN, Inc.	This letter was written to address the removal of RCRA TC EPA hazardous waste numbers for metals detected in samples taken of the Transfer/Storage pool filters and resins, streams 3211-01, 5410-01, and 5410-02 (see D006), and to correct resin volume estimates. WIPP-WAP and Battelle QAPjP requirements allow for non-hazardous characterization of this waste since TCLP concentrations are below regulatory levels. Radiological characterization of resins, 3211-01, generated as of Novermber 2000 indicate this waste is primarily low-level.	2001 May 25
P001	Alpha Gamma Cells JN-1A. Myers, Louis B., Eugene II. Sands, Paul A. Tomlin, and William E. Bruce.	This report describes general operations in the 10 Alpha Gamma Cells in the basement of JN-1A, including a description of the cells construction, cell access, and equipment and waste contained in each cell. Operations include metal specimen (Metmounts) grinding, washing, polishing, metallography analysis, production of californium sources, preparation of fuel samples for disposal, thermal conductivity testing, and x-ray diffraction. Attachments include miscellaneous photos, drawings, and narrative (unknown source), in addition to hand-written inventory lists, 1996 update, and a supplement to Battelle's procedure manual for the cells (1964). Limited information relating to specific projects and dates.	1994 August.
P006	Contents of the West Jefferson North Hot Cells and Storage Areas. Myers, Louis B., Max B. Berchtold, and Eugene H. Sands.	This report describes the equipment, wastes, supplies, and other contaminated materials contained in the High Energy Cell, High Level Cell, Low Level Cell, Hydraulic Room, Pump Room, Mechanical Test Cell, Charpy Room, and Alpha Gamma Cells.	1995 May.
P008	West Jefferson North Hopper Location and Contents. Myers, Louis B., and Max B. Berchtold. Battelle Columbus Laboratories.	This report describes the contents of 24 waste hoppers stored in JN-3, JN-1B (High Bay), and the Waste Storage Shed. Attachments include logbook entries of specific materials placed into certain hoppers.	1995. June.
P017	Low Level Cell JN-1A. Myers, Louis B., Max B. Berchtold, Thomas A. Beddick, Paul D. Faust, and Paul A. Tomin. Battelle Columbus Laboratories.	This report describes the operations and configuration of the Low Level Cell (LLC) in JN-1A. Projects included fuel cutting, grinding, tensile tests of cobalt samples, and gamma scanning of waste containers filled in the HLC. Attachments include a 1996 update, logbook pages describing the packaging of approximately 100 waste (berry) cans (December 1988 to February 1989), logbook pages of a study verifying the contents of the containers (July 1991), and radioassay results. Limited information relating to projects and dates.	1994. August.
P019	Charpy Room JN-1A. Myers, Louis B., Carl A. Redd, Sr., Max B. Berchtold.	This report describes operations and materials stored in the Charpy Room in JN-1A. Operations described include sheer testing of irradiated specimens and cleaning of samples. Attachments include a 1996 update, drawings and diagrams of the area, and a health physics survey report and data. Limited information relating to projects and dates.	1994 June.
P024	Procedures Manual for Battelle's Radioisotope, Gamma, and Hot-Cell Laboratories. Sunderson, Duane N., and John E. Gates.	Document describing Battelle's radioisotopes, gamma, and hot-cell laboratory operations and West Jefferson and King Avenue. Provides maps and floor plans of the facilities and brief descriptions of operations in JN-1 in 1965.	1965 November 24.
P025	Miscellaneous Materials Safety Data Sheets (MSDSs). Authored by Manufacturers.	Miscellaneous MSDS sheets collected from numerous sources collected during AK research at the West Jefferson site.	Various.

Ref No.	Title / Author	Summary	Date
P032	Procedures Manual for Battelle's Radioisotope, Gamma, and Hot-Cell Laboratories. Sunderson, Duane N., and John E. Gates.	Document describing Battelle's radioisotopes, gamma, and hot-cell laboratory operations and West Jefferson and King Avenue. Provides maps and floor plans of the facilities and brief descriptions of operations in JN-1 in 1962 before the construction of the Alpha/Gamma cells. The procedure also describes a Waste Disposal Area that was never constructed in the basement of JN-1.	1962 February 20.
P045	Decontamination and Decommissioning Operations, Decontamination and Decommisioning Operating Procedure, Operation of the Underwater Vacuum System UFV-100 (DD-OP-315). Battelle Columbus Laboratories.	Procedure describing the method used to filter/vacuum the JN-1 Transfer/Storage Pool. Also attached is Revision 0 of this procedure (September 12, 1991) that was never implemented.	1995. August 24. Revision 1
P046	Assembly and Operating Instructions, Underwater Filter/Vacuum Units (Models UFV-100 & UFV-260). Tri Nuclear Corporation.	Manufacturers instructions for operating the equipment used to filter/vacuum the JN-1 Transfer/Storage Pool. Includes drawings and specifications for the Tri-Nuc filters (waste stream 5410-01).	1994. December 16.
P047	Decontamination and Decommissioning Operations, Health Physics Operating Procedure, Removal of Objects From Contaminated Pools and Tanks (HP-OP-031). Battelle Columbus Laboratories.	Procedure describing the method used to remove objects from the bottom of the JN-1 Transfer/Storage Pool prior to vacuuming and draining.	1996. March 14.
U021	TCLP metals data for leaded glass. Rocky Flats Environmental Technology Site.	Analytical data for TCLP leachable metals in glass windows. Demonstrates leaded glass leaches at regulated levels for lead.	1998 July.
U022	Waste Package Loading Record Battelle Columbus Laboratories.	The Waste Package Loading Records describe the contents of 60 drums of waste generated by clean-up operations in the CAA and HEC. These records will be used to determine the waste streams to be generated during repackaing, including volume, matrix parameter category, and waste material parameter for each stream.	1997. October. To 1999. March.
U023	Requisition for Purchase, 55-gallon Steel Drum Liners Battelle Columbus Laboratories.	This requisition for the 55-gallon drum liners includes the specification for the liners to be used to package and compact TRU waste.	1999. February 18.

Appendix A

HEC AND CAA DRUM INVENTORY

This appendix includes the current drum inventory of materials to be repackaged in the Mechanical Test Cell of Building JN-1. The inventory was derived from Waste Packaging Loading Records for 60 drums of waste generated during Building JN-1 cleanup campaigns conducted in the mid 1980s. Information provided on the Waste Package Loading Record includes:

- Package or drum number,
- Item number,
- Item description,
- Material type,
- Material composition percentage,
- Loading date, and
- Summary or comments.

The itemized information provided on each Waste Package Loading Record was input to an Excel spreadsheet to aid in evaluation of the materials. Information not provided on the Waste Packaging Loading Record is indicated in the spreadsheet as N/P. Packing dates highlighted in the spreadsheet indicate the drum inventory was limited due to high alpha content encountered during investigation, and the drum contents were partially segregated.[C019,U022]

Of the 60 drums, 9 were identified which require further investigation prior to repackaging. Seven drums were listed as containing concrete or cement. Two drums were listed as containing resins. These drums require additional investigation and special handling, and will be segregated for later repackaging.[C019]

The contents for the remaining 51 drums were reviewed to determine the drum repackaging waste streams, the waste stream waste matrix compositions, and estimate the number of drums potentially generated for each waste stream. Each item listed was reviewed by description and material composition. Items composed of multiple materials were theoretically split and listed on separate lines of the spreadsheet. Individual items were then evaluated and assigned estimated repackaging destinations. Items assumed capable of decontamination are designated 'Sonatol' in the 'Repack Action' column of the spreadsheet. Items listed as 'TRU' are assumed to be TRU waste and assigned the predicted drum repack waste stream number. Items that may require special treatment, or further investigation during packaging, such as the paint roller from drum 1584 are designated with 'Segregate' in the 'Repack Action' column.[C020,C021]

Eight additional drums from Building JN-1 have been identified for repackaging in this process. However, inventory records are not available. Two of the drums contain vacuum bags and the remaining six are assumed to contain materials similar to those listed in this inventory as the waste was generated from the same area.[C019]

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
654	1	Metal/Paper	40/60	Tri-Nuc Filter # 47 -- HPS # J-11,891	8 lbs.	N/P	10/03/1997	TRU	S5410-02
654	2	Metal/Paper	40/60	Tri-Nuc Filter # 65 -- HPS # J-12,548	8 lbs.	N/P	10/03/1997	TRU	S5410-02
654	3	Metal/Paper	40/60	Tri-Nuc Filter # 57 -- HPS # J-12,367	8 lbs.	N/P	10/03/1997	TRU	S5410-02
654	4	Metal/Paper	40/60	Tri-Nuc Filter # 51 -- HPS # J-12,026	8 lbs.	N/P	10/03/1997	TRU	S5410-02
654	5	Metal/Paper	40/60	Tri-Nuc Filter # 58 -- HPS # J-12,410	8 lbs.	N/P	10/03/1997	TRU	S5410-02
654	6	Metal/Paper	40/60	Tri-Nuc Filter # 66 -- HPS # J-12,601	8 lbs.	N/P	10/03/1997	TRU	S5410-02
654	7	Metal/Paper	40/60	Tri-Nuc Filter # 59 -- HPS # J-12,431	8 lbs.	N/P	10/03/1997	TRU	S5410-02
1504	1	Metal	100	Tri-Nuc filter # 13 from SDSBC-1504	N/P	N/P	06/26/1998	TRU	S5410-02
1504	2	Metal	100	Tri-Nuc filter # 17 from SDSBC-1504	N/P	N/P	06/26/1998	TRU	S5410-02
1504	3	Metal	100	Tri-Nuc filter # 21from SDSBC-1504	N/P	N/P	06/26/1998	TRU	S5410-02
1504	4	Metal	100	Tri-Nuc filter # 16 from SDSBC-1504	N/P	N/P	06/26/1998	TRU	S5410-02
1504	5	Metal	100	Tri-Nuc filter # 1 from SDSBC-1504	N/P	N/P	06/26/1998	TRU	S5410-02
1504	6	Metal	100	Berry can # 1	N/P	N/P	06/26/1998	Sonatol	
1504	6	Paper	100	Trash from can #1, SDSBC-1504				TRU	S5390-02
1504	7	Metal	100	Berry can # 2	N/P	N/P	06/26/1998	Sonatol	
1504	7	Paper	100	Trash from can # 2, SDSBC-1504				TRU	S5390-02
1504	8	Metal	100	Berry can # 3	N/P	N/P	06/26/1998	Sonatol	
1504	8	Paper	100	Trash from can # 3, SDSBC-1504				TRU	S5390-02
1504	9	Metal	100	Berry can # 4	N/P	N/P	06/26/1998	Sonatol	
1504	9	Paper	100	Trash from can # 4, SDSBC-1504				TRU	S5390-02
1504	10	Metal	100	Berry can # 22	N/P	N/P	06/26/1998	Sonatol	
1504	10	Paper	100	Trash from can # 22, SDSBC-1504				TRU	S5390-02
1504	11	Metal	100	Berry can # 7	N/P	N/P	06/26/1998	Sonatol	
1504	11	Paper	100	Trash from can # 7, SDSBC-1504				TRU	S5390-02
1504	12	Metal/Plastic	95/5	Arm bag ring	N/P	N/P	06/26/1998	Sonatol	
1504	13	Metal/Plastic	80/20	Caulk gun	N/P	N/P	06/26/1998	Segregate	
1504	14	Metal	100	Bottom of strong back	N/P	N/P	06/26/1998	Sonatol	
1504	15	Metal	100	Small metal rod (bent)	N/P	N/P	06/26/1998	Sonatol	
1505	1	Metal	100	Tri-Nuc Filter #5	N/P	N/P	06/26/1998	TRU	S5410-02
1505	2	Metal	100	Tri-Nuc Filter #6	N/P	N/P	06/26/1998	TRU	S5410-02
1505	3	Metal	100	Tri-Nuc Filter # 8	N/P	N/P	06/26/1998	TRU	S5410-02
1505	4	Metal	100	Tri-Nuc Filter #9	N/P	N/P	06/26/1998	TRU	S5410-02
1505	5	Metal	100	Tri-Nuc Filter # 10	N/P	N/P	06/26/1998	TRU	S5410-02
1505	6	Metal	100	Tri-Nuc Filter # 11	N/P	N/P	06/26/1998	TRU	S5410-02
1505	7	Metal	100	Tri-Nuc Filter # 14	N/P	N/P	06/26/1998	TRU	S5410-02

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1505	8	Metal	100	Tri-Nuc Filter # 15	N/P	N/P	06/26/1998	TRU	S5410-02
1505	9	Metal/Plastic	95/5	Arm bag ring	N/P	N/P	06/26/1998	Sonatol	
1508	1	Metal/Plastic	98/2	Electrolux vacuum from SDSBC-1508	N/P	N/P	07/01/1998	Sonatol	
1508	2	Metal/Plastic	95/5	Electrolux vacuum from SDSBC-1508	N/P	N/P	07/01/1998	Sonatol	
1508	3	Metal	100	Berry can # 8-43	N/P	N/P	07/01/1998	Sonatol	
1508	3	Plastic	100	Plastic from can # 8-43, SDSBC-1508				TRU	S5390-01
1508	4	Metal	100	Berry can # 8-48	N/P	N/P	07/01/1998	Sonatol	
1508	4	Plastic	100	Plastic from can # 8-48, SDSBC-1508				TRU	S5390-01
1508	5	Metal	100	Berry can # 8-17	N/P	N/P	07/01/1998	Sonatol	
1508	5	Paper	100	Trash from can # 8-17, SDSBC-1508				TRU	S5390-02
1508	6	Metal	100	Berry can # 8-8	N/P	N/P	07/01/1998	Sonatol	
1508	6	Paper/Plastic	50/50	Plastic and tape from can # 8-8, SDSBC-1508				TRU	S5390-02
1508	7	Metal	100	Berry can # 8-15	N/P	N/P	07/01/1998	Sonatol	
1508	7	Unknown	100	Contents can # 8-15, SDSBC-1508				TRU	S5390-02
1508	8	Metal	100	Berry can # 8-13	N/P	N/P	07/01/1998	Sonatol	
1508	8	Unknown	100	Contents can # 8-13, SDSBC-1508				TRU	S5390-02
1508	9	Metal	100	Berry can # 8-20	N/P	N/P	07/01/1998	Sonatol	
1508	9	Unknown	100	Contents can # 8-20, SDSBC-1508				TRU	S5390-02
1508	10	Metal	100	Berry can # 8-6	N/P	N/P	07/01/1998	Sonatol	
1508	10	Plastic	100	Plastic from can # 8-6, SDSBC-1508				TRU	S5390-01
1508	11	Metal	100	Berry can # 8-3	N/P	N/P	07/01/1998	Sonatol	
1508	11	Plastic	100	Plastic from can # 8-3, SDSBC-1508				TRU	S5390-01
1508	12	Metal/Plastic	95/5	4 - arm bag rings	N/P	N/P	07/01/1998	Sonatol	
1509	1	Metal	100	Berry can	N/P	N/P	07/01/1998	Sonatol	
1509	1	Plastic	100	Plastic from berry can, SDSBC-1509				TRU	S5390-01
1509	2	Metal/Plastic	95/5	Arm bag ring	N/P	N/P	07/01/1998	Sonatol	
1509	3	Metal	100	Berry can # 8-50	N/P	N/P	07/01/1998	Sonatol	
1509	3	Plastic	100	Plastic from can # 8-50, SDSBC-1509				TRU	S5390-01
1509	4	Metal	100	Berry can # 8-11	N/P	N/P	07/01/1998	Sonatol	
1509	4	Unknown	100	Contents can # 8-11, SDSBC-1509				TRU	S5390-02
1509	5	Metal	100	Berry can # 8-16	N/P	N/P	07/01/1998	Sonatol	
1509	5	Unknown	100	Contents can # 8-16, SDSBC-1509				TRU	S5390-02
1509	6	Metal	100	Berry can # 8-9	N/P	N/P	07/01/1998	Sonatol	
1509	6	Paper	100	Contents can # 8-9, SDSBC-1509				TRU	S5390-02
1509	7	Metal	100	Berry can	N/P	N/P	07/01/1998	Sonatol	

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1509	7	Paper	100	Berry can contents, SDSBC-1509				TRU	S5390-02
1509	8	Metal	100	Berry can # 8-12	N/P	N/P	07/01/1998	Sonatol	
1509	8	Unknown	100	Contents can # 8-12, SDSBC-1509				TRU	S5390-02
1509	9	Metal	100	Berry can	N/P	N/P	07/01/1998	Sonatol	
1509	9	Paper	100	Berry can contents, SDSBC-1509				TRU	S5390-02
1509	10	Metal	100	Berry can	N/P	N/P	07/01/1998	Sonatol	
1509	10	Paper	100	Berry can contents, SDSBC-1509				TRU	S5390-02
1509	11	Metal	100	Aluminum can # 8-44	N/P	N/P	07/01/1998	Sonatol	
1509	12	Metal	100	Aluminum can # 8-45	N/P	N/P	07/01/1998	Sonatol	
1509	13	Metal	100	Berry can	N/P	N/P	07/01/1998	Sonatol	
1509	13	Paper	100	Berry can contents, SDSBC-1509				TRU	S5390-02
1509	14	Metal	100	Can of parrafin	N/P	N/P	07/01/1998	Segregate	
1509	14	Organic Liquid	100	Parrafin from SDSBC-1509				Segregate	
1509	15	Metal	100	Berry can	N/P	N/P	07/01/1998	Sonatol	
1509	15	Paper	100	Berry can contents, SDSBC-1509				TRU	S5390-02
1509	16	Wood	100	4" x 4" x 14" block, from SDSBC-1509	N/P	N/P	07/01/1998	TRU	S5390-01
1542	1	Metal	100	Fuel rod milling device	N/P	N/P	07/14/1998	Sonatol	
1542	2	Metal	100	Fuel assembly handling device	N/P	N/P	07/14/1998	Sonatol	
1542	3	Metal	100	Nut cracking device	N/P	N/P	07/14/1998	Sonatol	
1542	4	Metal	100	8" x 8" stainless steel mounting bracket	N/P	N/P	07/14/1998	Sonatol	
1542	5	Metal	100	Fission punch value (valve?)	N/P	N/P	07/15/1998	Sonatol	
1542	6	Metal/Plastic	80/20	Digital scale	N/P	N/P	07/15/1998	Sonatol	
1542	7	Metal	100	Fuel pipe clamp	N/P	N/P	07/15/1998	Sonatol	
1542	8	Metal	100	Load cell	N/P	N/P	07/15/1998	Sonatol	
1542	9	Metal	100	Hooks & cable	N/P	N/P	07/15/1998	Sonatol	
1542	10	Metal	100	Hooks & cable	N/P	N/P	07/15/1998	Sonatol	
1542	11	Metal	100	Vice & valve on I-beam	N/P	N/P	07/15/1998	Sonatol	
1542	12	Metal	100	Vice on plate	N/P	N/P	07/15/1998	Sonatol	
1542	13	Metal	100	Aluminum plate	N/P	N/P	07/15/1998	Sonatol	
1542	14	Metal	100	Aluminum channel - 1' long	N/P	N/P	07/15/1998	Sonatol	
1542	15	Metal	100	cage for co pellets	N/P	N/P	07/15/1998	Sonatol	
1542	16	Metal/Plastic	95/5	Arm bag rings - (3) total of rings	N/P	N/P	07/15/1998	Sonatol	
1542	17	Metal	100	Fission punch drill	N/P	N/P	07/15/1998	Sonatol	
1542	18	Metal	100	Scissors	N/P	N/P	07/15/1998	Sonatol	
1543	1	Metal	100	Bottom of a strong back	N/P	N/P	07/15/1998	Sonatol	
1543	2	Metal	100	Stainless steel can w/ spacer	N/P	N/P	07/15/1998	Sonatol	

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1543	3	Metal	100	S hook	N/P	N/P	07/15/1998	Sonatol	
1543	4	Metal	100	Load cell	N/P	N/P	07/15/1998	Sonatol	
1543	5	Metal	100	Plumb bob	N/P	N/P	07/15/1998	Sonatol	
1543	6	Metal	100	2" x 8" Aluminum plate	N/P	N/P	07/15/1998	Sonatol	
1543	7	Metal	100	Impact wrench (drill)	N/P	N/P	07/15/1998	Sonatol	
1543	8	Metal	100	3' x 1" aluminum conduit	N/P	N/P	07/15/1998	Sonatol	
1543	10	Metal	100	1/4" metal hook	N/P	N/P	07/15/1998	Sonatol	
1543	11	Metal	100	1' x 1' stainless steel sheet	N/P	N/P	07/15/1998	Sonatol	
1543	12	Metal/Plastic	95/5	Arm bag rings - total of 4 rings in drum	N/P	N/P	07/15/1998	Sonatol	
1543	13	Metal	100	Hydraulic cutters	N/P	N/P	07/15/1998	Sonatol	
1543	14	Metal	100	Tension scale	N/P	N/P	07/15/1998	Sonatol	
1543	15	Metal	100	Shackel w/ steel strap	N/P	N/P	07/15/1998	Sonatol	
1543	16	Metal	100	ID # 8-29 magnet w/ brace	N/P	N/P	07/15/1998	Sonatol	
1543	17	Metal	100	Aluminium locking plate	N/P	N/P	07/15/1998	Sonatol	
1543	29	Metal/Plexigl	80/20	U shape sheet metal w/ plexiglass	N/P	N/P	07/15/1998	Sonatol	
1548	1	Metal	100	Fission gas drill	N/P	N/P	07/21/1998	Sonatol	
1548	2	Metal	100	Go-no go guage	N/P	N/P	07/21/1998	Sonatol	
1548	3	Metal	100	Berry can	N/P	N/P	07/21/1998	Sonatol	
1548	3	Plastic	100	Berry can contents, SDSBC-1548				TRU	S5390-01
1548	4	Metal	100	Berry can	N/P	N/P	07/21/1998	Sonatol	
1548	4	Plastic	100	Berry can contents, SDSBC-1548				TRU	S5390-01
1548	5	Metal	100	Berry can	N/P	N/P	07/21/1998	Sonatol	
1548	5	Plastic	100	Berry can contents, SDSBC-1548				TRU	S5390-01
1548	6	Cloth/Plastic	53/47	Berry can contents, SDSBC-1548				TRU	S5390-02
1548	6	Metal	100	Berry can	N/P	N/P	07/21/1998	Sonatol	
1548	7	Cloth/Plastic /Wood	47/47/6	Berry can contents, SDSBC-1548				TRU	S5390-02
1548	7	Metal	100	Berry can	N/P	N/P	07/21/1998	Sonatol	
1548	8	Glass	100	Berry can contents, SDSBC-1548				TRU	S5190-01
1548	8	Metal	100	Berry can	N/P	N/P	07/21/1998	Sonatol	
1551	1	Metal/Paper	82/20	Tri-Nuc filters	N/P	N/P	N/P	TRU	S5410-02
1552	1	Paper	100	Compactable from SDSBC-1552	1.5 lbs.	115 lbs.		TRU	S5390-02
1552	1	Plastic	100	Compactable from SDSBC-1552	13.5 lbs.	115 lbs.		TRU	S5390-01
1552	2	Paper	100	Compactable from SDSBC-1552	1.5 lbs.	115 lbs.		TRU	S5390-02
1552	2	Plastic	100	Compactable from SDSBC-1552	3.5 lbs.	115 lbs.		TRU	S5390-01
1552	3	Metal/Rubber	95/5	Clamshell heater	5 lbs.	115 lbs.	08/04/1998	Sonatol	

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1552	4	Metal	100	Trashcan	4.5 lbs.	115 lbs.	08/04/1998	Sonatol	
1552	4	Plastic	100	Plastic from trashcan in SDSBC-1552	0.5 lbs.	115 lbs.		TRU	S5390-01
1553	1	Metal	100	Electric motor	N/P	110 lbs.	08/04/1998	Sonatol	
1553	2	Metal	100	Galvanized tash can	N/P	110 lbs.	08/04/1998	Sonatol	
1553	2	Paper	100	Paper from trashcan in SDSBC-1553		110 lbs.		TRU	S5390-02
1553	3	Rubber/Plastic	70/30	Manipulator sleeve	N/P	110 lbs.	08/04/1998	TRU	S5390-01
1553	4	Paper	100	Compactable from SDSBC-1553		110 lbs.		TRU	S5390-02
1553	4	Plastic	100	Compactable from SDSBC-1553		110 lbs.		TRU	S5390-01
1554	1	Metal	100	Metal	160 lbs.	152 lbs.	08/04/1998	Sonatol	
1555	1	Paper	100	Compactable from SDSBC-1555	4 lbs.	67 lbs.		TRU	S5390-02
1555	1	Plastic	100	Compactable from SDSBC-1555	6 lbs.	67 lbs.		TRU	S5390-01
1556	1	Paper	100	Compactable from SDSBC-1556		210 lbs.		TRU	S5390-02
1556	1	Plastic	100	Compactable from SDSBC-1556		210 lbs.		TRU	S5390-01
1556	2	Metal	100	Metal	N/P	210 lbs.	08/04/1998	Sonatol	
1557	1	Metal	100	Metal	280 lbs.	N/P	08/04/1998	Sonatol	
1558	1	Metal	100	Metal	N/P	188 lbs.	08/04/1998	Sonatol	
1558	2	Metal/Plastic	90/10	Vacuum w/ hose from SDSBC-1558		188 lbs.		Sonatol	
1558	3	Paper	100	Compactable from SDSBC-1558		188 lbs.		TRU	S5390-02
1558	3	Plastic	100	Compactable from SDSBC-1558		188 lbs.		TRU	S5390-01
1559	1	Metal	100	Metal	N/P	177 lbs.	08/05/1998	Sonatol	
1560	1	Paper/Plastic /Soil/Concrete	50/40 /5/5	Vacuum filter w/ compactable	30 lbs.	N/P	08/04/1998	TRU	S5390-02
1561	1	Glass	100	Compactable from SDSBC-1561		206 lbs.		TRU	S5190-02
1561	1	Metal	100	Comapactable from SDSBC-1561		206 lbs.		TRU	S5190-02
1561	1	Paper	100	Comapactable	N/P	206 lbs.	08/06/1998	TRU	S5390-02
1561	1	Plastic	100	Comapactable from SDSBC-1561		206 lbs.		TRU	S5390-01
1562	1	Metal	100	Angle iron, grating, crushed cans, lathe parts	N/P	125 lbs.	08/07/1998	Sonatol	
1563	1	Paper	100	Compactable from SDSBC-1563				TRU	S5390-02
1563	1	Plastic	100	Compactable from SDSBC-1563				TRU	S5390-01
1563	2	Metal	100	Metal	N/P	N/P	08/07/1998	Sonatol	
1565	1	Metal/Plastic	70/30	Strainer basket, lifting staps, tygon tubing	N/P	92 lbs.	09/12/1998	TRU	S5390-02
1565	1	Unknown	100	Black bag of unknown from SDSBC-1565		92 lbs.		Segregate	
1566	1	Metal	90	Metal	N/P	91 lbs.	08/12/1998	Sonatol	

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1566	2	Paper	100	Compactable from SDSBC-1566		91 lbs.		TRU	S5390-02
1566	2	Rubber	100	Compactable from SDSBC-1566		91 lbs.		TRU	S5390-01
1567	1	Paper	100	Compactable from SDSBC-1567		190 lbs.		TRU	S5390-02
1567	1	Plastic	100	Compactable	N/P	190 lbs.	08/13/1998	TRU	S5390-01
1569	1	Metal	100	Metal	N/P	N/P	08/13/1998	Sonatol	
1570	1	Plastic	100	Compactable	N/P	189 lbs.	08/14/1998	TRU	S5390-01
1573	1	Paper	100	Compactable from SDSBC-1573	1 lbs.	85 lbs.		TRU	S5390-02
1573	1	Plastic	100	Compactable	19 lbs.	85 lbs.	08/17/1998	TRU	S5390-01
1575	1	Paper	100	Compactable from SDSBC-1575	11 lbs.	810 lbs.		TRU	S5390-02
1575	1	Plastic/Paper	90/10	Compactable	99 lbs.	810 lbs.	08/17/1998	TRU	S5390-02
1577	1	Metal/Concrete	20/80	Sweeper from HEC	890 lbs.	N/P	08/17/1998	Sonatol	
1578	1	Cloth	100	Compactable from SDSBC-1578				TRU	S5390-02
1578	1	Plastic	100	Compactable from SDSBC-1578				TRU	S5390-01
1578	2	Metal	100	Metal	N/P	N/P	08/18/1998	Sonatol	
1580	1	Rubber	100	3' x 6' mat - used on HEC floor, from SDSBC-1580				TRU	S5390-01
1580	2	Metal/Cloth	50/50	Strap, come along, from SDSBC-1580				TRU	S5390-02
1580	3	Metal	100	Skill saw	N/P	N/P	08/25/1998	Sonatol	
1580	4	Metal	100	Heat gun	N/P	N/P	08/25/1998	Sonatol	
1580	5	Metal/Rubber	60/40	Motor w/ flexible shaft	N/P	N/P	08/25/1998	Sonatol	
1580	6	Metal/Glass	95/5	Welders hood	N/P	N/P	08/25/1998	Sonatol	
1580	7	Metal	100	Large 'C' clamp	N/P	N/P	08/25/1998	Sonatol	
1580	8	Metal/Rubber	85/15	Dremel tool	N/P	N/P	08/25/1998	Sonatol	
1580	9	Metal	100	Vice	N/P	N/P	08/25/1998	Sonatol	
1580	10	Metal	100	Approximately 15' if cable w/ hook	N/P	N/P	08/25/1998	Sonatol	
1580	11	Metal	100	Approximately 7' if cable w/ 5' of chain	N/P	N/P	08/25/1998	Sonatol	
1580	12	Metal	100	Dust pan	N/P	N/P	08/25/1998	Sonatol	
1580	13	Metal/Rubber	95/5	3/8" drill	N/P	N/P	08/25/1998	Sonatol	
1580	14	Paper	100	Cardboard tube, from SDSBC-1580				TRU	S5390-02
1580	15	Metal	100	1' x 1' metal plate	N/P	N/P	08/25/1998	Sonatol	
1580	16	Plastic/Paper	95/5	Roll of duct tape, from SDSBC-1580				TRU	S5390-02
1580	17	Metal	100	Grease gun	N/P	N/P	08/25/1998	Segregate	
1580	18	Plastic	100	Polyethylene 250 ml. Bottle, from SDSBC-1580				TRU	S5390-01

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1580	19	Metal	100	Welding rods - approximately 10, from SDSBC-1580				Segregate	
1580	20	Metal	100	Scissors	N/P	N/P	08/25/1998	Sonatol	
1580	21	Metal/Cloth	90/10	Magic marker, from SDSBC-1580				TRU	S5390-02
1580	22	Metal	100	Quart can lid	N/P	N/P	08/25/1998	Sonatol	
1580	23	Metal	100	Wire w/ hook - approximately 2' long	N/P	N/P	08/25/1998	Sonatol	
1580	24	Metal	100	Shackel w/ hook	N/P	N/P	08/25/1998	Sonatol	
1580	25	Metal	100	Large 'C' clamp	N/P	N/P	08/25/1998	Sonatol	
1580	26	Wood/Glass /Liquid	90/5/5	2' level, from SDSBC-1580				TRU	S5390-01
1580	27	Metal	100	8" piece of angle iron	N/P	N/P	08/25/1998	Sonatol	
1580	28	Metal	100	1' x 1/2" rod	N/P	N/P	08/25/1998	Sonatol	
1580	29	Metal	100	Allen wrench	N/P	N/P	08/25/1998	Sonatol	
1580	30	Metal	100	3 - arm bag rings	N/P	N/P	08/25/1998	Sonatol	
1580	31	Metal	100	15' cable w/ hook	N/P	N/P	08/25/1998	Sonatol	
1582	1	Metal/Plastic	10/90	HEPA hose	N/P	214 lbs.	08/19/1998	TRU	S5390-01
1583	1	Wood	100	Wood from SDSBC-1583		183 lbs.		TRU	S5390-01
1583	2	Nylon	100	Rope	N/P	183 lbs.	08/24/1998	TRU	S5390-01
1583	3	Paper	100	Comapactable from SDSBC-1583		183 lbs.		TRU	S5390-02
1583	3	Plastic	100	Comapactable	N/P	183 lbs.	08/24/1998	TRU	S5390-01
1584	1	Paper	100	Compactable from SDSBC-1584		107 lbs.		TRU	S5390-02
1584	1	Plastic	100	Compactable from SDSBC-1584		107 lbs.		TRU	S5390-01
1584	2	Glass/Metal	90/10	Flood lights from SDSBC-1584		107 lbs.		Sonatol	
1584	3	Metal	100	Metal pin	N/P	107 lbs.	08/24/1998	Sonatol	
1584	4	Metal	100	Metal pin	N/P	107 lbs.	08/24/1998	Sonatol	
1584	5	Plastic	100	Paint roller from SDSBC-1584		107 lbs.		Segregate	
1586	1	Cloth	100	Cloth from MBNBC-1586	2.1 lbs.			TRU	S5390-02
1586	1	Metal	100	Berry cans	18.9 lbs.	N/P	08/25/1998	TRU	S5190-01
1589	1	Metal/Paper /Cloth	10/5/85	Prefilters	N/P	N/P	08/27/1998	TRU	S5390-02
1592	1	Cloth	100	Compactable from SDSBC-1592		135 lbs.		TRU	S5390-02
1592	1	Plastic/Cloth	100	Compactable	N/P	135 lbs.	08/28/1998	TRU	S5390-02
1617	1	Metal	100	Berry can lid	N/P	N/P	N/P	TRU	S5190-01
1617	2	Paper/Metal	98/2	Prefilter from SDSBC-1617				TRU	S5390-02
1618	1	Metal	100	Metal	N/P	N/P	N/P	Sonatol	
1618	2	Plastic	100	Compactable from SDSBC-1618				TRU	S5390-01

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1618	3	Metal	100	Metal tube	1 lbs.	N/P	09/02/1998	Sonatol	
1618	4	Metal	100	Metal pins	2 lbs.	N/P	09/02/1998	Sonatol	
1621	1	Metal/Paper	10/90	HEPA filters	N/P	N/P	N/P	TRU	S5390-02
1621	2	Wood	100	Wood from SDSBC-1621				TRU	S5390-01
1622	1	Metal	100	Berry cans	N/P		09/08/1998	Sonatol	
1622	1	Paper	100	Compactable from can in SDSBC-1622				TRU	S5390-02
1622	1	Plastic	100	Compactable from can in SDSBC-1622				TRU	S5390-01
1623	1	Metal/Paper /Plastic	80/10 /10	2- Electrolux vacuums w/ compactable waste	N/P	N/P	09/08/1998	Sonatol	
1624	1	Wood	100	Wood	N/P	178 lbs.	09/09/1998	TRU	S5390-01
1624	2	Glass	100	Compactable from SDSBC-1624		178 lbs.		TRU	S5190-02
1624	2	Paper	100	Comapactable from SDSBC-1624		178 lbs.		TRU	S5390-02
1624	2	Plastic	100	Comapactable from SDSBC-1624		178 lbs.		TRU	S5390-01
1632	1	Paper	100	Compactable	N/P	N/P	09/14/1998	TRU	S5390-02
1632	1	Plastic	100	Compactable from SDSBC-1632				TRU	S5390-01
1633	1	Metal	100	Berry cans	N/P	N/P	09/14/1998	TRU	S5190-01
1633	1	Paper	100	Berry can contents, SDSBC-1633				TRU	S5390-02
1633	2	Rubber	100	Rubber hoses from SDSBC-1633				TRU	S5390-01
1634	1	Metal	100	Metal	N/P	N/P	09/14/1998	Sonatol	
1634	1	Plastic	100	Compactable from SDSBC-1634				TRU	S5390-01
1636	1	Glass/Rubber	5/95	Light bulbs from SDSBC-1636				Sonatol	S5122c
1636	2	Metal	100	Scrap metal	N/P	N/P	09/14/1998	Sonatol	
1636	3	Wood	100	Wood from SDSBC-1636				TRU	S5390-01
1671	1	Metal	100	Large rod marking device	N/P	N/P	12/09/1998	Sonatol	
1671	2	Metal	100	Eddie current device piece	N/P	N/P	12/09/1998	Sonatol	
1671	3	Metal	100	1 1/2' x 2' aluminum plate	N/P	N/P	12/09/1998	Sonatol	
1671	4	Metal	100	Tool box	N/P	N/P	01/20/1999	Sonatol	
1671	5	Metal	100	Angle iron w/ electric box	N/P	N/P	01/20/1999	Sonatol	
1671	6	Metal	100	Rod marking device head	N/P	N/P	01/20/1999	Sonatol	
1671	7	Metal	100	Parts to rod marking device	N/P	N/P	01/20/1999	Sonatol	
1683	1	Metal	100	Berry can.	N/P	N/P	12/09/1998	Sonatol	
1683	1	Plastic	100	Arm bag from SDNBC-1683				TRU	S5390-01
1683	1	Plastic/Soil	50/50	Sweeper bag from SDNBC-1683				TRU	S5390-02
1683	2	Metal	100	Berry can.	N/P	N/P	12/09/1998	Sonatol	
1683	3	Plastic	100	Loose arm bag from SDNBC-1683				TRU	S5390-01
1683	4	Plastic	100	Loose arm bag (2) from SDNBC-1683				TRU	S5390-01

Appendix A
JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1683	5	Metal	100	Berry can.	N/P	N/P	12/09/1998	Sonatol	
1683	5	Paper	100	Trash from berry can in SDNBC-1683				TRU	S5390-02
1683	6	Metal	100	Berry can.	N/P	N/P	12/09/1998	Sonatol	
1683	6	Paper	100	Trash from berry can in SDNBC-1683				TRU	S5390-02
1683	7	Metal	100	Berry can	N/P	N/P	12/09/1998	Sonatol	
1683	7	Paper	100	Trash from berry can in SDNBC-1683				TRU	S5390-02
1683	8	Metal	100	Small motor	N/P	N/P	12/09/1998	Sonatol	
1683	9	Metal	100	Berry can	N/P	N/P	12/15/1998	Sonatol	
1683	9	Paper	100	Trash from berry can in SDNBC-1683				TRU	S5390-02
1683	10	Metal	100	Horizontal drilling motor	N/P	N/P	12/15/1998	Sonatol	
1683	11	Metal	100	Berry cans (3)	N/P	N/P	01/20/1999	Sonatol	
1683	11	Paper	100	Trash from berry cans (3) in SDNBC-1683				TRU	S5390-02
1726	1	Plastic	100	5 gallon bucket of plexiglass from SDSBC 1726	20 lbs.			TRU	S5390-01
1726	2	Paper/Cloth	10/90	2 - 4" pre rough filters from SDSBC-1726	2 lbs.			TRU	S5390-02
1726	3	Metal/Rubber	50/50	Electric cord	1 lbs.	N/P	02/26/1999	Sonatol	
1726	4	Rubber	100	Belt from SDSBC-1726	1 lbs.			TRU	S5390-01
1726	5	Wood	100	9 wood pieces from SDSBC-1726	1 lbs.			TRU	S5390-01
1726	6	Metal	100	Aluminum manipulator finger	1 lbs.	N/P	02/26/1999	Sonatol	
1726	7	Metal	100	Zircalloy 6" piece of thimble tube	1 lbs.	N/P	02/16/1999	Sonatol	
1726	8	Metal	100	Berry can	0.1 lbs.	N/P	03/01/1999	Sonatol	
1726	8	Paper	100	Berry can trash from SDSBC-1726	0.1 lbs.			TRU	S5390-02
1726	8	Rubber	100	Arm bag from berry can, in SDSBC-1726	0.8 lbs.			TRU	S5390-01
1726	9	Metal/Rubber	50/50	3 Flexible shaft cables	1 lbs.	N/P	03/01/1999	Sonatol	
1726	10	Metal	100	Electric motor & gear box - from eddy current device	(5 + 3) = 8 lbs.	N/P	03/04/1999	Sonatol	
1726	11	Cloth	100	Berry can trash from SDSBC-1726	0.4 lbs.			TRU	S5390-02
1726	11	Glass	100	Berry can trash from SDSBC-1726	.05 lbs.			TRU	S5190-02
1726	11	Metal	100	Berry can	0.05 lbs.	N/P	03/09/1999	Sonatol	
1726	11	Plastic	100	Trash from berry can, in SDSBC-1726	0.4 lbs.			TRU	S5390-01
1726	11	Plastic	100	Vacuum hose from SDSBC-1726	2 lbs.			TRU	S5390-01
1726	11	Wood	100	Berry can trash from SDSBC-1726	0.1 lbs.			TRU	S5390-01
1726	12	Plastic	100	5' red air hose from SDSBC-1726	1 lbs.			TRU	S5390-01
1726	13	Metal/Rubber	50/50	4' multi conductor electric cord.	1 lbs.	N/P	03/17/1999	Sonatol	
1726	14	Metal	100	Berry can	*3 lbs.*	N/P	03/17/1999	Sonatol	

JN-1 Drum Repackaging Inventory

Drum Number	Item	Material	%	Description	Item Weight	Drum Weight	Pack Date	Repack Action	New Stream
1726	14	Misc.	100	Berry can trash from SDSBC-1726	*3 lbs.*			TRU	S5390-02
1726	15	Plexiglass	100	5 gallon bucket of plexiglass from SDSBC 1726	30 lbs.			TRU	S5390-01
1726	16	Metal	100	Berry can	*7 lbs.*	N/P	03/22/1999	Sonatol	
1726	16	Misc.	100	Berry can trash from SDSBC-1726	*7 lbs.*			TRU	S5390-02
1726	17	Metal/Rubber	50/50	10' multi conductor electric cord.	1 lbs.	N/P	03/23/1999	Sonatol	
1726	18	Plexiglass	100	Berry can bucket aligner from SDSBC-1726	2 lbs.			TRU	S5390-01
1726	19	Metal	100	Empty berry can	1 lbs.	N/P	03/24/1999	Sonatol	
1726	20	Metal	100	Vacuum nozzle	1 lbs.	N/P	03/24/1999	Sonatol	
1727	1	Metal/Rubber	50/50	5 Flex shaft cable (fm cutoff whl.)	1 lbs.	N/P	02/18/1999	Sonatol	
1727	2	Metal	100	3 - 5" x 12"plates from sabatoge unit	1 lbs.	N/P	02/18/1999	Segregate	
1727	3	Plastic	100	2 - 5 gallon buckest of plexiglass from SDNBC-1727	20 lbs.			TRU	S5390-01
1727	4	Metal	100	Bottom of storage canister	1 lbs.	N/P	02/19/1999	Sonatol	
1727	5	Metal/Rubber	60/40	Welding cable & head	5 lbs.	N/P	02/19/1999	TRU	S5390-01

Appendix B

HEC, LLC, HLC, AND A-GC HOPPER (CASK) INVENTORY

This appendix includes the hopper (cask) inventory of materials to be repackaged in the High Energy Cell of Building JN-1. The inventory was derived from logbook data included in the Decontamination and Decommissioning Report. The waste was originally generated from the HEC, LLC, HLC, and Alpha-GammaCells.[C024,P008] Information recorded for the inventory includes:

- Package number,
- Item number,
- Item description,
- Material type,
- Material composition percentage, and
- Loading date.

The itemized information provided was input to an Excel spreadsheet to aid in evaluation of the materials. The inventory spreadsheets include containers not included in the waste stream designations or volume calculations. One hopper (cask) listed in the spreadsheet is not included as it is listed as empty.[C024,P008]

Since the volumes of individual hoppers or casks vary, and the inventories of these containers contain limited information, items were not assigned to specific waste streams. The waste distribution is based on those determined from the berry can inventories. Volume percentages for each stream were calculated based on the total volumes of each berry can inventory stream. The volumes the cask streams were then calculated based on an average volume of 4 cubic foot per cask.[C024]

Hopper (Cask) Repackaging Inventory

Hopper (Cask) No.	Origin	Original Contents
1	HLC	Cans of compacted waste
2	HLC	Cans of compacted waste
3	HLC	Cans of compacted waste
4	HLC/LLC	B40 - soft, compatable waste wipes, etc.
		A30 - miscellaneous metal
		B17 - nonmetallic
		B22 - soft, nonmetallic, plastic, table wipes, etc.
		A21 - soft, nonmetallic, plastic, wipes, etc.
		B44 - soft, nonmetallic, sweeper bags, table wipes, etc.
		B45 - soft, nonmetallic, cords, poly tubing, wipes, etc.
		B39 - miscellaneous solid, noncompatable waste, cladding
5		Waste storage cans 5-1 - 5-13, 5-15 - 21
		NAC # 1 spacer, triple quart can w/ burn up cement slug debris
6	A/G	Cans of compacted waste plus three gallon cans
7	HLC	Cans of compacted waste
8	HLC	Cans of compacted waste
9	JN-3 Pool	35 waste storage cans.
10		One piece Combustion Engineering cruciform control rod
11		28 1-inch pieces of control rod, 13 .125-inch and 4 .042-inch poison rod pieces
12	JN-3 Pool	Uncompacted waste from the HEC
13	JN-3 Pool	Compacted waste from HLC
14		One piece Combustion Engineering cruciform control rod, fuel assembly bottom nozzle
15		24 canisters of burn up cement slugs labeled 25-48
16	JN-3 Pool	23 canisters of burn up cement slugs labeled 1-6 and 8-24
EX-16		15.5 inch by 48-inch aluminum canister containing two pieces of Combustion Engineering cruciform control rod
17	HEC	Uncompacted waste from the HEC
17A	JN-3 Pool	B-53 - Miscellaneous metal
		B-54 - N/C Metal
		B-51 - Compactable
		B-55 - Compactable
		B-59 - Soft material, table wipes, sweeper bags, etc.
		B-41 - N/C Metal solids
		B-43 - N/C soft wipes, etc.
		B-58 - Compactable waste, sling, sweeper hose, etc.
		B-4 - aluminum vials
		B-10 - Miscellaneous metal
		B-13 - sweeper hoses
		B-19 - Berry can lids
		B-21 - Blue filters
		B-23 - Miscellaneous metal
		B-24 - Blue filters
		B-29 - Towels and miscellaneous wipes
		B-32 - Blue filters
		B-37 - Miscellaneous metal
		A-1 - Misc. metal

Hopper (Cask) Repackaging Inventory

Hopper (Cask) No.	Origin	Original Contents
		A-2 - Non metallic
		A-7 - Alum vials
		A-11 - Misc. metal
		A-18 - Alum vials
		A-24 - Wooden pieces
		A-31 - Misc. metal
		B-52 - Blue filters
		B-50 - Blue filters
		Fifteen other miscellanous cans
18	JN-3 Pool	A-3 - Non metallic
		A-4 - Misc. metal
		A-5 - Misc. metal
		A-6 - Misc. metal
		A-9 - Alum vials
		A-10 - Misc. metal
		A-15 - Misc. metal
		A-16 - Non metallic
		A-17 - Blue filters
		A-19 - Nonmetallic
		A-25 - Misc. metal
		A-26 - Nonmetallic
		A-27 - Misc. metal
		A-28 - Misc. metal
		B-1 - Fuel rod claddings
		B-2 - Fuel rod claddings
		B-3 - Misc. metal
		B-5 - Nonmetallic
		B-6 - alum vials & steel caps
		B-8 - Nonmetallic
		B-9 - Misc. metal
		B-12 - Misc. metal
		B-14 - Misc. metal
		B-16 - Nonmetallic
		B-19 - Blue filters
		B-20 - Sweeper bags
		B-27 - Blue filters & sweeper bags
		B-29 - Towels and miscellaneous wipes
		B-30 - Misc. metal
		B-33 - Sweeper bags
		B-34 - Blue filters
		B-35 - Blue filters
		B-36 - Misc metal
		B-38 - Blue filters
19	JN-3 Pool	Forty Two waste storage cans of misc materials
20	JN-3 Pool	Twenty Three waste storage cans of misc materials
21	HEC	Cans of uncompacted waste
22	HEC	Cans of uncompacted waste
23	JN-3 Pool	Empty

Appendix C

HLC BERRY CAN INVENTORY

This appendix includes the berry can inventory of materials to be repackaged in the Low Level Cell of Building JN-1. The inventory was derived from logbook data included in the Decontamination and Decommissioning Reports. The waste was originally generated from the HLC from December 1988 through February 1989. [C024,P017] Information recorded for the inventory includes:

- Package number,
- Item number,
- Item description,
- Material type,
- Material composition percentage, and
- Loading date.

The itemized information provided was input to an Excel spreadsheet to aid in evaluation of the materials. The berry can inventories were evaluated with the following methodology. The listed contents of each container were reviewed for material compositions. Items composed of the same waste material parameter category material were grouped together and listed with the material compositions and estimated volume percentages in the spreadsheets. For example, items such as towels, rope, and wood from the same container, would be grouped as one entry in the spreadsheet with the material category of cellulosics.[C024]

The estimated volume percent for each spreadsheet entry was determined based on the original inventory percentages provided, the description of the items, and the number of items in each container. The volume of each can is assumed to be one gallon.[C024]

The spreadsheet entries were then evaluated and assigned to repackaging waste streams. Items assumed capable of decontamination are assigned to the 'Sonatol' stream. Items that may require special treatment, or further investigation during packaging, such as liquids or soils, are designated with 'Segregate' in the 'Waste Stream' column.[C024]

Appendix C

HLC Berry Can Repackaging Inventory

Original Can No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol .(gal.)	Waste Stream
S1	14-Sep-88	Plastic & towels.	Coth	80	0.80	5390-02
S1	14-Sep-88	Plastic & towels.	Plastic	20	0.20	5390-02
S10	20-Sep-88	Wipes and towels.	Cloth	50	0.50	5390-02
S10	20-Sep-88	Wipes and towels.	Paper	50	0.50	5390-02
S100	26-Jan-88	Paper, and sweeper hose.	Cloth/Rubber/ Wire	50	0.50	5390-02
S100	26-Jan-89	Paper, and sweeper hose.	Paper	50	0.50	5390-02
S101	26-Jan-89	Cut up tubes, spec. cans (can is 75% full).	Metal	75	0.75	5190-01
S102	26-Jan-89	Metal graphic mounts whole and broken.	Plastic	100	1.00	5390-01
S103	26-Jan-89	3 inch diameter tubes and rings (can is 75% full).	Metal	75	0.75	Sonatol
S104	30-Jan-89	Compacted filters.	Paper	100	1.00	5390-02
S106	08-Feb-89	Metal and wood.	Metal	60	0.60	Sonatol
S106	08-Feb-89	Metal and wood.	Wood	40	0.40	5390-01
S108	08-Feb-89	Metal and wood.	Metal	95	0.95	Sonatol
S108	08-Feb-89	Metal and wood.	Wood	5	0.05	5390-01
S109	08-Feb-89	Metal, elec. cords, rubber hose, cut off wheels.	Metal	45	0.45	Sonatol
S109	08-Feb-89	Metal, elec. cords, rubber hose, cut off wheels.	Plastic	10	0.10	5390-01
S109	08-Feb-89	Metal, elec. cords, rubber hose, cut off wheels.	Rubber	45	0.45	5390-01
S11	28-Oct-88	Metal vials, glass, misc. metal.	Glass	5	0.05	5190-01
S11	28-Oct-88	Metal vials, glass, misc. metal.	Metal	95	0.95	Sonatol
S110	08-Feb-89	Cut up metal.	Metal	100	1.00	5190-01
S111	30-Jan-89	Wood, rubber, metal, sweeper bag, elec. wire.	Debris/Paper	25	0.25	5390-02
S111	30-Jan-89	Wood, rubber, metal, sweeper bag, elec. wire.	Metal	2	0.02	5190-01
S111	30-Jan-89	Wood, rubber, metal, sweeper bag, elec. wire.	Rubber	60	0.60	5390-01

HLC Berry Can Repackaging Inventory

Original Can No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol .(gal.)	Waste Stream
S111	30-Jan-89	Wood, rubber, metal, sweeper bag, elec. wire.	Wire	10	0.10	5390-01
S111	30-Jan-89	Wood, rubber, metal, sweeper bag, elec. wire.	Wood	3	0.03	5390-01
S112	08-Feb-89	Elec. cord, paper, wire.	Electric Cord	90	0.90	5390-02
S112	08-Feb-89	Elec. cord, paper, wire.	Paper	10	0.10	5390-02
S113	30-Jan-89	Cut up tubes, straps, scrap.	Metal	100	1.00	5190-01
S12	28-Oct-88	Wipes, sweeper bags, debris.	Paper	100	1.00	5390-02
S13	31-Oct-88	Motor, vials, cut off wheel, misc. metal.	Metal	100	1.00	Sonatol
S14	31-Oct-88	Wires, towels, vials, sweeper bag.	Cloth	20	0.20	5390-02
S14	31-Oct-88	Wires, towels, vials, sweeper bag.	Paper	80	0.80	5390-02
S15	02-Nov-88	Cut up metal cans.	Metal	100	1.00	5190-01
S16	02-Nov-88	Cut up metal cans, broken mirrors.	Glass	5	0.05	5190-01
S16	02-Nov-88	Cut up metal cans, broken mirrors.	Metal	95	0.95	5190-01
S18	03-Nov-88	Cut and crushed berry buckets.	Metal	100	1.00	5190-01
S19	03-Nov-88	Cut and crushed berry buckets.	Metal	100	1.00	5190-01
S2	14-Sep-88	Burst samples, specimen cans, glass.	Debris	1	0.01	5390-02
S2	14-Sep-88	Burst samples, specimen cans, glass.	Glass	1	0.01	5190-01
S2	14-Sep-88	Burst samples, specimen cans, glass.	Metal	98	0.98	5190-01
S20	07-Nov-88	Tools, vials, crushed cans.	Metal	100	1.00	Sonatol
S21	03-Nov-88	Tools, vials, misc. metal.	Metal	100	1.00	Sonatol
S22	03-Nov-88	Arm bags, sweeper bags, wipes.	Debris/Paper	70	0.70	5390-02
S22	03-Nov-88	Arm bags, sweeper bags, wipes.	Plastic	30	0.30	5390-02
S23	07-Nov-88	Arm bags, sweeper bags.	Debris/Paper	40	0.40	5390-02
S23	07-Nov-88	Arm bags, sweeper bags.	Plastic	60	0.60	5390-01
S24	07-Nov-88	Misc. metal, trays for furnaces.	Metal	100	1.00	Sonatol
S25	07-Nov-88	Wipes, plastic, sweeper bags.	Debris/Paper	85	0.85	5390-02
S25	07-Nov-88	Wipes, plastic, sweeper bags.	Plastic	15	0.15	5390-02
S26	07-Nov-88	Crushed cans, Al., elec. wire.	Metal	90	0.90	5190-01
S26	07-Nov-88	Crushed cans, Al., elec. wire.	Plastic/Rubber	10	0.10	5390-01
S27	07-Nov-88	Misc. metal, poison rod clad, tensil specs. (can 75% full)	Metal	75	0.75	Sonatol
S28	08-Nov-88	Cut up and crushed berry buckets.	Metal	100	1.00	5190-01

Appendix C

HLC Berry Can Repackaging Inventory

Original Can No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol .(gal.)	Waste Stream
S29	08-Nov-88	Compacted plastic vials, plexiglass, rope.	Fiber	10	0.10	5390-01
S29	08-Nov-88	Compacted plastic vials, plexiglass, rope.	Plastic	90	0.90	5390-01
S3	15-Sep-88	Wipes, towels, plastic vials, Dri-rite.	Cloth	40	0.40	5390-02
S3	15-Sep-88	Wipes, towels, plastic vials, Dri-rite.	Dri-rite	5	0.05	5190-02
S3	15-Sep-88	Wipes, towels, plastic vials, Dri-rite.	Paper	40	0.40	5390-02
S3	15-Sep-88	Wipes, towels, plastic vials, Dri-rite.	Plastic	15	0.15	5390-02
S30	08-Nov-88	Elec. cords, vials, filter, cut off wheels.	Metal	30	0.30	Sonatol
S30	08-Nov-88	Elec. cords, vials, filter, cut off wheels.	Paper	10	0.10	5390-02
S30	08-Nov-88	Elec. cords, vials, filter, cut off wheels.	Rubber/Wires	60	0.60	5390-01
S31	09-Nov-88	Misc. metal, glass.	Glass	10	0.10	5190-01
S31	09-Nov-88	Misc. metal, glass.	Metal	90	0.90	5190-01
S32	09-Nov-88	Cut up and compressed berry buckets.	Metal	100	1.00	5190-01
S33	09-Nov-88	Wipes, towels, sweepings.	Cloth	35	0.35	5390-02
S33	09-Nov-88	Wipes, towels, sweepings.	Debris	15	0.15	5390-02
S33	09-Nov-88	Wipes, towels, sweepings.	Paper	50	0.50	5390-02
S34	09-Nov-88	Aluminum vials.	Metal	100	1.00	Sonatol
S35	28-Nov-88	Wrenches, sockets, misc. solid metal.	Metal	100	1.00	Sonatol
S36	30-Nov-88	Aluminum vials.	Metal	100	1.00	Sonatol
S37	09-Nov-88	Metal cans and tubes, glass bulbs.	Glass	15	0.15	5190-02
S37	09-Nov-88	Metal cans and tubes, glass bulbs.	Metal	85	0.85	Sonatol
S38	30-Nov-88	Cut up solid metal.	Metal	100	1.00	5190-01
S39	01-Dec-88	Cut and crushed metal cans and boxes.	Metal	100	1.00	5190-01
S4	15-Sep-88	Towels, wipes, sweeper bag.	Cloth	25	0.25	5390-02
S4	15-Sep-88	Towels, wipes, sweeper bag.	Debris	10	0.10	5390-02
S4	15-Sep-88	Towels, wipes, sweeper bag.	Paper	65	0.65	5390-02
S40	23-Nov-88	Metal wire, vial, junk.	Metal	100	1.00	Sonatol
S41	23-Nov-88	Tools, conduit, vials.	Metal	100	1.00	Sonatol
S43	23-Nov-88	Paper, plastic, wood, cut off wheel.	Paper	70	0.70	5390-02
S43	23-Nov-88	Paper, plastic, wood, cut off wheel.	Plastic	25	0.25	5390-02
S43	23-Nov-88	Paper, plastic, wood, cut off wheel.	Wood	5	0.05	5390-02
S44	23-Nov-88	Crushed metal.	Metal	100	1.00	5190-01
S45	28-Nov-88	Wires, wipes, teflon tubing.	Metal	25	0.25	Sonatol

HLC Berry Can Repackaging Inventory

Original Can No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol .(gal.)	Waste Stream
S45	28-Nov-88	Wires, wipes, teflon tubing.	Paper	35	0.35	5390-02
S45	28-Nov-88	Wires, wipes, teflon tubing.	Plastic	40	0.40	5390-02
S46	28-Nov-88	Crushed metal cans.	Metal	100	1.00	5190-01
S47	29-Nov-88	Misc. metal pieces.	Metal	100	1.00	5190-01
S48	30-Nov-88	Cut up and crushed cans.	Metal	100	1.00	5190-01
S5	15-Sep-88	Wipes, plastic vials.	Paper	95	0.95	5390-02
S5	15-Sep-88	Wipes, plastic vials.	Plastic	5	0.05	5390-02
S50	29-Nov-88	Metal vials, pieces of wood.	Metal	80	0.80	Sonatol
S50	29-Nov-88	Metal vials, pieces of wood.	Wood	20	0.20	5390-01
S51	03-Jan-89	Table wipes.	Paper	100	1.00	5390-02
S52	26-Jan-89	Cladding, vials, rod (can is 75% full).	Metal	75	0.75	Sonatol
S53	27-Dec-88	Metal, tensil samples, poison rods, towel.	Cloth	75	0.75	5390-02
S53	27-Dec-88	Metal, tensil samples, poison rods, towel.	Metal	25	0.25	Sonatol
S54	13-Dec-88	Drill press parts, ultrasonic cleaner.	Metal	100	1.00	Sonatol
S55	20-Dec-88	Tools, WT. OA plug, misc. metal (can is 75% full).	Metal	75	0.75	Sonatol
S56	23-Dec-88	Al. and steel vials.	Metal	100	1.00	Sonatol
S57	28-Dec-88	Al. and steel vials.	Metal	100	1.00	Sonatol
S59	07-Dec-88	Small metal pieces, tygon.	Metal	70	0.70	5190-01
S59	07-Dec-88	Small metal pieces, tygon.	Plastic	30	0.30	5390-01
S6	20-Sep-88	Table wipes, sweeper bags.	Debris	4	0.04	5390-02
S6	20-Sep-88	Table wipes, sweeper bags.	Paper	96	0.96	5390-02
S60	07-Dec-88	Floor sweepings, water ? Filter.	Debris	80	0.80	5390-02
S60	07-Dec-88	Floor sweepings, water ? Filter.	Filter	20	0.20	5390-02
S61	28-Dec-88	Al. and steel tubes (can is 2/3 full).	Metal	67	0.67	Sonatol
S62	07-Dec-88	Floor sweepings (can 75% full).	Debris	56.25	0.56	5390-02
S62	07-Dec-88	Floor sweepings (can 75% full).	Plastic	18.75	0.19	5390-02
S63	07-Dec-88	Crushed cans.	Metal	100	1.00	5190-01
S64	07-Dec-88	Towels, wipes, sweeper bags.	Cloth	25	0.25	5390-02
S64	07-Dec-88	Towels, wipes, sweeper bags.	Debris	15	0.15	5390-02
S64	07-Dec-88	Towels, wipes, sweeper bags.	Paper	60	0.60	5390-02
S65	11-Jan-89	Cut up cans.	Metal	100	1.00	5190-01

Appendix C

HLC Berry Can Repackaging Inventory

Original Can No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol .(gal.)	Waste Stream
S66	09-Jan-89	Wipes, towels, sweeper bag.	Cloth	20	0.20	5390-02
S66	09-Jan-89	Wipes, towels, sweeper bag.	Debris	15	0.15	5390-02
S66	09-Jan-89	Wipes, towels, sweeper bag.	Paper	65	0.65	5390-02
S67	10-Jan-89	Wipes, towels, arm bag, sweeper bag.	Debris	15	0.15	5390-02
S67	10-Jan-89	Wipes, towels, arm bag, sweeper bag.	Paper	70	0.70	5390-02
S67	10-Jan-89	Wipes, towels, arm bag, sweeper bag.	Plastic	15	0.15	5390-02
S68	12-Jan-89	Filters and plastic.	Filter	95	0.95	5390-02
S68	12-Jan-89	Filters and plastic.	Plastic	5	0.05	5390-02
S69	12-Jan-89	Arm bags.	Plastic	100	1.00	5390-01
S7	20-Sep-88	Filter frames, wipes, sweeper bags.	Debris	4	0.04	5390-02
S7	20-Sep-88	Filter frames, wipes, sweeper bags.	Paper	96	0.96	5390-02
S70	12-Jan-89	Filters, plastic bags, wires.	Fiberglass	60	0.60	5390-02
S70	12-Jan-89	Filters, plastic bags, wires.	Metal	5	0.05	Sonatol
S70	12-Jan-89	Filters, plastic bags, wires.	Paper	20	0.20	5390-02
S70	12-Jan-89	Filters, plastic bags, wires.	Plastic	15	0.15	5390-02
S71	12-Jan-89	Filters, plastic bags.	Paper	80	0.80	5390-02
S71	12-Jan-89	Filters, plastic bags.	Plastic	20	0.20	5390-02
S72	13-Jan-89	Filters, plastic bags.	Paper	40	0.40	5390-02
S72	13-Jan-89	Filters, plastic bags.	Plastic	60	0.60	5390-02
S73	13-Jan-89	Plastic, filters, elec. cords, sweeper bags.	Debris	5	0.05	5390-02
S73	13-Jan-89	Plastic, filters, elec. cords, sweeper bags.	Fiberglass	45	0.45	5390-02
S73	13-Jan-89	Plastic, filters, elec. cords, sweeper bags.	Metal	5	0.05	5390-02
S73	13-Jan-89	Plastic, filters, elec. cords, sweeper bags.	Paper	40	0.40	5390-02
S73	13-Jan-89	Plastic, filters, elec. cords, sweeper bags.	Plastic	5	0.05	5390-02
S74	18-Jan-89	Metal and wood.	Metal	35	0.35	Sonatol
S74	18-Jan-89	Metal and wood.	Wood	65	0.65	5390-01
S75	18-Jan-89	Arm bags.	Plastic	100	1.00	5390-01
S76	18-Jan-89	Filter, armbags, misc. metal, fire brick.	Firebrick	15	0.15	5190-02
S76	18-Jan-89	Filter, armbags, misc. metal, fire brick.	Metal	15	0.15	Sonatol

HLC Berry Can Repackaging Inventory

Original Can No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol .(gal.)	Waste Stream
S76	18-Jan-89	Filter, armbags, misc. metal, fire brick.	Paper	35	0.35	5390-02
S76	18-Jan-89	Filter, armbags, misc. metal, fire brick.	Plastic	35	0.35	5390-01
S77	18-Jan-89	Water filters, plastic, glass, poly funnels.	Filter	30	0.30	5390-02
S77	18-Jan-89	Water filters, plastic, glass, poly funnels.	Glass	5	0.05	5190-02
S77	18-Jan-89	Water filters, plastic, glass, poly funnels.	Plastic	65	0.65	5390-02
S78	13-Jan-89	Crushed cans, machine parts.	Metal	100	1.00	5190-01
S79	18-Jan-89	Crushed metal boxes, vials.	Metal	100	1.00	5190-01
S8	20-Sep-88	Paper, 1 metal tube.	Metal	2	0.02	Sonatol
S8	20-Sep-88	Paper, 1 metal tube.	Paper	98	0.98	5390-02
S80	18-Jan-89	Crushed cans, vials, misc. metal.	Metal	100	1.00	5190-01
S81	26-Jan-89	Metal graphic mounts, plastic, vials.	Metal	20	0.20	Sonatol
S81	26-Jan-89	Metal graphic mounts, plastic, vials.	Plastic	80	0.80	5390-01
S82	13-Jan-89	Cut up metal (surveillance capsules)	Metal	100	1.00	5190-01
S83	26-Jan-89	Crushed cans and tackle boxes.	Metal	100	1.00	5190-01
S84	26-Jan-89	Cut up metal, cladding.	Metal	100	1.00	5190-01
S85	26-Jan-89	Crushed cans, misc. metal.	Metal	100	1.00	5190-01
S86	26-Jan-89	Metal graphic mounts, vials, sweeper bags.	Debris	5	0.05	5390-02
S86	26-Jan-89	Metal graphic mounts, vials, sweeper bags.	Metal	20	0.20	Sonatol
S86	26-Jan-89	Metal graphic mounts, vials, sweeper bags.	Paper	20	0.20	5390-02
S86	26-Jan-89	Metal graphic mounts, vials, sweeper bags.	Plastic	55	0.55	5390-01
S87	26-Jan-89	Crushed buckets and tackle boxes.	Metal	100	1.00	5190-01
S88	26-Jan-89	Crushed berry buckets.	Metal	100	1.00	5190-01
S89	30-Jan-89	Cut and crushed metal.	Metal	100	1.00	5190-01
S9	20-Sep-98	Filters, sweeper bags, plastic vials.	Paper	90	0.90	5390-02
S9	20-Sep-98	Filters, sweeper bags, plastic vials.	Plastic	10	0.10	5390-02
S90	30-Jan-89	Firebricks and wood.	Firebrick	50	0.50	5190-01
S90	30-Jan-89	Firebricks and wood.	Wood	50	0.50	5390-01

Appendix C

HLC Berry Can Repackaging Inventory

Original Can No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol .(gal.)	Waste Stream
S94	30-Jan-89	Cut up metal tubes (can 50% full).	Metal	50	0.50	5190-01
S95	30-Jan-89	Crushed tackle boxes, plastic vials.	Metal	98	0.98	5190-01
S95	30-Jan-89	Crushed tackle boxes, plastic vials.	Plastic	2	0.02	5390-01
S96	30-Jan-89	Wood	Wood	100	1.00	5390-01
S97	30-Jan-89	Compact, sweeper hose, wood, plastic.	Cloth/Rubber /Wire	25	0.25	5390-02
S97	30-Jan-89	Compact, sweeper hose, wood, plastic.	Paper	25	0.25	5390-02
S97	30-Jan-89	Compact, sweeper hose, wood, plastic.	Plastic	25	0.25	5390-02
S97	30-Jan-89	Compact, sweeper hose, wood, plastic.	Wood	25	0.25	5390-02
S98	30-Jan-89	Cut up expanded metal.	Metal	100	1.00	5190-01
S99	30-Jan-89	Wood and wipes.	Paper	5	0.05	5390-02
S99	30-Jan-89	Wood and wipes.	Wood	95	0.95	5390-02

Appendix D

ALPHA-GAMMA CELLS BERRY CAN INVENTORY

This appendix includes the berry can inventory of materials to be repackaged in the Low Level Cell of Building JN-1. The inventory was derived from Waste Package Loading Records for 206 cans of waste from the Alpha-Gamma Cells generated from June to September 1999.[C024] Information recorded for the inventory includes:

- Package number,
- Item number,
- Item description,
- Material type,
- Material composition percentage, and
- Loading date.

The itemized information provided was input to an Excel spreadsheet to aid in evaluation of the materials. The inventory spreadsheets include containers not included in the waste stream designations or volume calculations. Of the 205 berry cans from the Alpha-Gamma cells, 40 will require further investigation, or treatment before repackaging. This includes 35 cans originally generated in Cells 5 and 6, and five cans containing liquids.[C024]

The berry can inventories were evaluated with the following methodology. The listed contents of each container were reviewed for material compositions. Items composed of the same waste material parameter category material were grouped together and listed with the material compositions and estimated volume percentages in the spreadsheets. For example, items such as towels, rope, and wood from the same container, would be grouped as one entry in the spreadsheet with the material category of cellulosics.[C024]

The estimated volume percent for each spreadsheet entry was determined based on the original inventory percentages provided, the description of the items, and the number of items in each container. The volume of each can is assumed to be one gallon.[C024]

The spreadsheet entries were then evaluated and assigned to repackaging waste streams. Items assumed capable of decontamination are assigned to the 'Sonatol' stream. Items that may require special treatment, or further investigation during packaging, such as liquids or soils, are designated with 'Segregate' in the 'Waste Stream' column.[C024]

Appendix D

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
1-07-AGC	Berry	1	25-Aug-99	Aluminum lid	Aluminum	5	0.05	Sonatol
07-16-AGC	Sm. Berry	7	19-Jul-99	Aluminum foil	Aluminum	5	0.05	5190-02
07-32-AGC	Sm. Berry	7	21-Jul-99	Aluminum foil	Aluminum	25	0.25	5190-02
07-42-AGC	Sm. Berry	7	23-Jul-99	Aluminum foil	Aluminum	20	0.20	5190-02
07-50-AGC	Sm. Berry	7	28-Jul-99	Aluminum foil	Aluminum	20	0.20	5190-02
07-60-AGC	Sm. Berry	7	05-Aug-99	Light socket	Aluminum	10	0.10	Sonatol
08-02-AGC	Sm. Berry	8	09-Aug-99	Rod	Aluminum	10	0.10	Sonatol
03-01-AGC	Berry	3	18-Jun-99	Manipulator arm part	Aluminum/metal	20	0.20	Sonatol
03-07-AGC	Berry	3	07-Jul-99	Manipulator arm part	Aluminum/metal	20	0.20	Sonatol
04-07-AGC	Berry	4	07-Jul-99	Manipulator arm parts	Aluminum/Metal	25	0.25	Sonatol
1-04-AGC	Berry	1	13-Jun-99	Cotton Balls	Cellulosics	25	0.25	5390-02
1-07-AGC	Berry	1	25-Aug-99	Cotton Balls	Cellulosics	5	0.05	5390-02
02-01-AGC	Berry	2	12-Jul-99	Chem wipes	Cellulosics	50	0.50	5390-02
02-02-AGC	Sm. Berry	2	12-Jul-99	Cotton Balls	Cellulosics	1	0.01	5390-02
02-03-AGC	Sm. Berry	2	12-Jul-99	Cotton Balls	Cellulosics	5	0.05	5390-02
02-04-AGC	Sm. Berry	2	12-Jul-99	Cotton Balls	Cellulosics	5	0.05	5390-02
02-07-AGC	Berry	2	12-Jul-99	Absorb. Pad, teri towels	Cellulosics	40	0.40	5390-02
02-08-AGC	Berry	2	12-Jul-99	Teri towels, cardboard	Cellulosics	60	0.60	5390-02
02-09-AGC	Sm. Berry	2	12-Jul-99	Cotton Balls	Cellulosics	5	0.05	5390-02
02-09-AGC	Sm. Berry	2	12-Jul-99	Cotton Balls	Cellulosics	5	0.05	5390-02
02-10-AGC	Sm. Berry	2	12-Jul-99	Teri towels	Cellulosics	50	0.50	5390-02
02-11-AGC	Berry	2	13-Jul-99	Teri towels, wipes, cotton balls	Cellulosics	40	0.40	5390-02
02-12-AGC	Berry	2	13-Jul-99	Wipes	Cellulosics	40	0.40	5390-02
02-17-AGC	Lg. Berry	2	16-Aug-99	Decon rags	Cellulosics	50	0.50	5390-02
03-01-AGC	Berry	3	18-Jun-99	Sand paper, wipes	Cellulosics	20	0.20	5390-02
03-02-AGC	Sm. Berry	3	07-Jul-99	Cotton Balls	Cellulosics	5	0.05	5390-02
03-03-AGC	Sm. Berry	3	07-Jul-99	Cotton Balls	Cellulosics	5	0.05	5390-02
03-04-AGC	Sm. Berry	3	07-Jul-99	Terri towels	Cellulosics	100	1.00	5390-02
03-05-AGC	Sm. Berry	3	07-Jul-99	Terri towels, cardboard	Cellulosics	100	1.00	5390-02
03-06-AGC	Sm. Berry	3	07-Jul-99	Terri towels, cardboard	Cellulosics	100	1.00	5390-02
03-08-AGC	Berry	3	07-Jul-99	Teri towels, sand paper, cardboard	Cellulosics	40	0.40	5390-02
03-08-AGC	Berry	3	07-Jul-99	paper, cardboard	Cellulosics	20	0.20	5390-02
03-10-AGC	Lg. Berry	3	07-Jul-99	Decon rags	Cellulosics	50	0.50	5390-02
03-10-AGC	Lg. Berry	3	07-Jul-99	Decon rags	Cellulosics	50	0.50	5390-02
04-01-AGC	Berry	4	06-Jul-99	Teri towels, cardboard	Cellulosics	100	1.00	5390-02

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
04-02-AGC	Berry	4	06-Jul-99	Teri towels, cardboard	Cellulosics	100	1.00	5390-02
04-03-AGC	Berry	4	06-Jul-99	Teri towels	Cellulosics	100	1.00	5390-02
04-04-AGC	Berry	4	06-Jul-99	Teri towels, cardboard	Cellulosics	100	1.00	5390-02
04-05-AGC	Berry	4	06-Jul-99	Teri towels, cardboard, cotton balls	Cellulosics	50	0.50	5390-02
04-06-AGC	Berry	4	07-Jul-99	Sand paper, wipes, rags, teri towels	Cellulosics	85	0.85	5390-02
04-07-AGC	Berry	4	07-Jul-99	Sand paper	Cellulosics	25	0.25	5390-02
04-09-AGC	Berry	4	15-Jul-99	Rag	Cellulosics	10	0.10	5390-02
04-10-AGC	Lg. Berry	4	16-Aug-99	Yellow decon rags	Cellulosics	100	1.00	5390-02
04-11-AGC	Sm. Berry	4	16-Aug-99	Masking tape	Cellulosics	25	0.25	5390-02
AG-04-A	Sm. Berry	4	14-Jul-99	Teri wipes	Cellulosics	50	0.50	5390-02
AG-04-BAG5	Sm. Bag	4	14-Jul-99	Paint brush, ruler	Cellulosics	30	0.30	5390-02
06-06-AGC	Sm. Berry	6	01-Sep-99	String	Cellulosics	10	0.10	Segregate
07-09-AGC	Sm. Berry	7	19-Jul-99	Chem wipes	Cellulosics	20	0.20	5390-02
07-10-AGC	Sm. Berry	7	19-Jul-99	Chem wipes, rags	Cellulosics	50	0.50	5390-02
07-14-AGC	Sm. Berry	7	19-Jul-99	Rag	Cellulosics	25	0.25	5390-02
07-25-AGC	Sm. Berry	7	20-Jul-99	Chem wipes	Cellulosics	25	0.25	5390-02
07-26-AGC	Sm. Berry	7	20-Jul-99	Chem wipes	Cellulosics	25	0.25	5390-02
07-30-AGC	Sm. Berry	7	21-Jul-99	Teri towels	Cellulosics	20	0.20	5390-02
07-31-AGC	Sm. Berry	7	21-Jul-99	Rag, teri towels	Cellulosics	20	0.20	5390-02
07-32-AGC	Sm. Berry	7	21-Jul-99	String, teri towels	Cellulosics	40	0.40	5390-02
07-33-AGC	Sm. Berry	7	21-Jul-99	Rope, string, teri towels	Cellulosics	50	0.50	5390-02
07-37-AGC	Sm. Berry	7	23-Jul-99	Teri towels	Cellulosics	25	0.25	5390-02
07-38-AGC	Sm. Berry	7	23-Jul-99	String, teri towels	Cellulosics	75	0.75	5390-02
07-40-AGC	Sm. Berry	7	23-Jul-99	Teri towels	Cellulosics	25	0.25	5390-02
07-41-AGC	Sm. Berry	7	23-Jul-99	String, teri towels	Cellulosics	32	0.32	5390-02
07-42-AGC	Sm. Berry	7	23-Jul-99	Teri towels	Cellulosics	15	0.15	5390-02
07-43-AGC	Sm. Berry	7	23-Jul-99	Teri towels	Cellulosics	25	0.25	5390-02
07-44-AGC	Sm. Berry	7	23-Jul-99	Teri towels	Cellulosics	20	0.20	5390-02
07-50-AGC	Sm. Berry	7	28-Jul-99	String, teri towels	Cellulosics	20	0.20	5390-02
07-51-AGC	Sm. Berry	7	27-Jul-99	String, teri towels	Cellulosics	20	0.20	5390-02
07-53-AGC	Sm. Berry	7	30-Jul-99	String	Cellulosics	5	0.05	5390-01
07-63-AGC	Berry	7	26-Aug-99	Rags	Cellulosics	100	1.00	5390-02
07-64-AGC	Berry	7	26-Aug-99	Rags	Cellulosics	100	1.00	5390-02
07-65-AGC	Berry	7	26-Aug-99	Rags	Cellulosics	100	1.00	5390-02
07-66-AGC	Berry	7	26-Aug-99	Rags	Cellulosics	100	1.00	5390-02

Appendix D

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
07-67-AGC	Berry	7	26-Aug-99	Rags	Cellulosics	100	1.00	5390-02
07-68-AGC	Berry	7	26-Aug-99	Rags	Cellulosics	95	0.95	5390-02
08-02-AGC	Sm. Berry	8	09-Aug-99	Large Q-tips	Cellulosics	20	0.20	5390-02
08-05-AGC	Sm. Berry	8	12-Aug-99	Pencil, masking tape	Cellulosics	10	0.10	5390-02
08-06-AGC	Sm. Berry	8	12-Aug-99	Pencil, ruler, paper	Cellulosics	80	0.80	5390-02
08-07-AGC	Sm. Berry	8	12-Aug-99	Photograph	Cellulosics	5	0.05	5390-02
08-09-AGC	Sm. Berry	8	12-Aug-99	Paper, cotton swab, floor sweepings	Cellulosics	50	0.50	5390-02
08-10-AGC	Sm. Berry	8	13-Aug-99	Wedge, picture, cotton ball	Cellulosics	75	0.75	5390-02
AGC-VAC-BAG	Berry	All	27-Aug-99	Vacuum bag	Cellulosics	100	1.00	5390-02
AGC-VAC-BAG-1	Berry	All	27-Aug-99	Vacuum prefilter	Cellulosics	100	1.00	5390-02
07-55-AGC	Sm. Berry	7	03-Aug-99	String, heater flask w/ elec. Cord (may contain asbestos)	Cellulosics/Copper	100	1.00	5390-02
02-18-AGC	Lg. Berry	2	16-Aug-99	Broken glass trays	Glass	100	1.00	5190-01
04-07-AGC	Berry	4	07-Jul-99	Crushed light	Glass	25	0.25	5190-02
07-11-AGC	Sm. Berry	7	19-Jul-99	Crushed light bulb	Glass	3	0.03	5190-02
07-14-AGC	Sm. Berry	7	19-Jul-99	Crushed light bulb	Glass	5	0.05	5190-02
07-16-AGC	Sm. Berry	7	19-Jul-99	Crushed light bulb	Glass	5	0.05	5190-02
07-18-AGC	Sm. Berry	7	19-Jul-99	Crushed light bulb	Glass	4	0.04	5190-02
07-19-AGC	Sm. Berry	7	20-Jul-99	Light bulb pieces, bottle pieces	Glass	25	0.25	5190-02
07-20-AGC	Sm. Berry	7	20-Jul-99	Broken glass pieces	Glass	20	0.20	5190-01
07-21-AGC	Sm. Berry	7	20-Jul-99	Broken glass pieces	Glass	20	0.20	5190-01
07-23-AGC	Sm. Berry	7	20-Jul-99	Broken glass pieces	Glass	5	0.05	5190-01
07-25-AGC	Sm. Berry	7	20-Jul-99	Broken glass pieces	Glass	5	0.05	5190-02
07-26-AGC	Sm. Berry	7	20-Jul-99	Light bulb pieces	Glass	5	0.05	5190-02
07-27-AGC	Sm. Berry	7	20-Jul-99	Broken glass pieces	Glass	20	0.20	5190-01
07-28-AGC	Sm. Berry	7	21-Jul-99	Broken glass pieces	Glass	25	0.25	5190-01
07-29-AGC	Sm. Berry	7	21-Jul-99	Broken glass pieces	Glass	20	0.20	5190-01
07-30-AGC	Sm. Berry	7	21-Jul-99	Broken glass pieces	Glass	5	0.05	5190-02
07-31-AGC	Sm. Berry	7	21-Jul-99	Glass tubing, broken glass	Glass	20	0.20	5190-02
07-38-AGC	Sm. Berry	7	23-Jul-99	Sample tube	Glass	10	0.10	5190-02
07-39-AGC	Sm. Berry	7	23-Jul-99	Broken glass, sample tube	Glass	35	0.35	5190-01
07-40-AGC	Sm. Berry	7	23-Jul-99	Broken glass	Glass	25	0.25	5190-02
07-42-AGC	Sm. Berry	7	23-Jul-99	Broken glass	Glass	20	0.20	5190-02
07-43-AGC	Sm. Berry	7	23-Jul-99	Broken Glass	Glass	25	0.25	5190-02
07-44-AGC	Sm. Berry	7	23-Jul-99	Broken glass	Glass	20	0.20	5190-02

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
07-45-AGC	Sm. Berry	7	26-Jul-99	Broken glass	Glass	25	0.25	5190-01
07-46-AGC	Sm. Berry	7	26-Jul-99	Broken glass	Glass	25	0.25	5190-01
07-48-AGC	Berry	7	27-Jul-99	Broken glass beaker	Glass	5	0.05	5190-02
07-51-AGC	Sm. Berry	7	27-Jul-99	Broken glass pieces	Glass	15	0.15	5190-02
07-54-AGC	Sm. Berry	7	03-Aug-99	Bronken light bulb pieces	Glass	10	0.10	5190-02
07-56-AGC	Sm. Berry	7	03-Aug-99	Broken glass pieces	Glass	80	0.80	5190-01
07-57-AGC	Sm. Berry	7	05-Aug-99	Glass shards	Glass	20	0.20	5190-01
07-59-AGC	Sm. Berry	7	05-Aug-99	Broken glass	Glass	30	0.30	5190-01
07-60-AGC	Sm. Berry	7	05-Aug-99	Glass shards and pieces	Glass	30	0.30	5190-01
07-62-AGC	Sm. Berry	7	13-Aug-99	Broken glass	Glass	33	0.33	5190-01
08-05-AGC	Sm. Berry	8	12-Aug-99	Sample beaker, shard	Glass	15	0.15	5190-02
03-08-AGC	Berry	3	07-Jul-99	Crushed Light Bulb	Glass/metal	10	0.10	5190-02
02-13-AGC	2L Nalgene	2	12-Aug-99	Bottles with residue	Liquid	NA		Segregate
02-14-AGC	2L Nalgene	2	12-Aug-99	Bottles with liquids	Liquid	NA		Segregate
02-15-AGC	2L Nalgene	2	12-Aug-99	Bottles with solvent	Liquid	NA		Segregate
02-16-AGC	Acrylic Jar	2	27-Aug-99	Acid	Liquid	NA		Segregate
1-04-AGC	Berry	1	13-Jun-99	Metmount holder & washer	Metal	50	0.50	Sonatol
02-05-AGC	Berry	2	12-Jul-99	Metmount holders	Metal	50	0.50	Sonatol
02-06-AGC	Berry	2	12-Jul-99	Metmount holders	Metal	50	0.50	Sonatol
02-07-AGC	Berry	2	12-Jul-99	Metmount holders	Metal	20	0.20	Sonatol
02-08-AGC	Berry	2	12-Jul-99	Metmount holders	Metal	40	0.40	Sonatol
02-09-AGC	Sm. Berry	2	12-Jul-99	Metmount holder, washer	Metal	45	0.45	Sonatol
02-10-AGC	Sm. Berry	2	12-Jul-99	Metmount holders	Metal	50	0.50	Sonatol
02-11-AGC	Berry	2	13-Jul-99	Plate (2"x3")	Metal	20	0.20	Sonatol
02-12-AGC	Berry	2	13-Jul-99	Allen wrench	Metal	10	0.10	Sonatol
03-01-AGC	Berry	3	18-Jun-99	Grinder part	Metal	20	0.20	Sonatol
03-03-AGC	Sm. Berry	3	07-Jul-99	Metal Spacer	Metal	25	0.25	Sonatol
03-07-AGC	Berry	3	07-Jul-99	Vice grips (2), metal wheel	Metal	40	0.40	Sonatol
03-08-AGC	Berry	3	07-Jul-99	Vice grips, plate	Metal	20	0.20	Sonatol
03-09-AGC	Sm. Berry	3	07-Jul-99	Metal	Metal	100	1.00	5190-01
04-09-AGC	Berry	4	15-Jul-99	Berry can lid	Metal	10	0.10	Sonatol
AG-04-BAG1	Sm. Bag	4	14-Jul-99	Steel bracket 2' long	Metal	100		Sonatol
AG-04-BAG2	Sm. Bag	4	14-Jul-99	Steel ready rod 1.5' long	Metal	100		Sonatol
AG-04-BAG3	Sm. Bag	4	14-Jul-99	Steel angle 1' long	Metal	100		Sonatol
AG-04-BAG4	Sm. Bag	4	14-Jul-99	Steel angles 1' long (2)	Metal	100		Sonatol

Appendix D

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
07-09-AGC	Sm. Berry	7	19-Jul-99	Bracket	Metal	20	0.20	Sonatol
07-27-AGC	Sm. Berry	7	20-Jul-99	Bracket	Metal	20	0.20	Sonatol
07-29-AGC	Sm. Berry	7	21-Jul-99	Cable	Metal	5	0.05	Sonatol
07-30-AGC	Sm. Berry	7	21-Jul-99	Bracket	Metal	10	0.10	Sonatol
07-37-AGC	Sm. Berry	7	23-Jul-99	Bracket	Metal	10	0.10	Sonatol
07-38-AGC	Sm. Berry	7	23-Jul-99	Metal hook	Metal	10	0.10	Sonatol
07-46-AGC	Sm. Berry	7	26-Jul-99	Cable	Metal	5	0.05	Sonatol
07-47-AGC	Sm. Berry	7	26-Jul-99	Hook	Metal	10	0.10	Sonatol
07-53-AGC	Sm. Berry	7	30-Jul-99	Screws, clamp	Metal	10	0.10	Sonatol
07-54-AGC	Sm. Berry	7	03-Aug-99	Clamps	Metal	10	0.10	Sonatol
07-56-AGC	Sm. Berry	7	03-Aug-99	Small rod	Metal	20	0.20	Sonatol
07-59-AGC	Sm. Berry	7	05-Aug-99	Bracket	Metal	10	0.10	Sonatol
07-60-AGC	Sm. Berry	7	05-Aug-99	Metal clip	Metal	10	0.10	Sonatol
07-61-AGC	Sm. Berry	7	06-Aug-99	Scale readoust	Metal	5	0.05	Sonatol
08-01-AGC	Sm. Berry	8	09-Aug-99	Metal pieces	Metal	20	0.20	5190-01
08-02-AGC	Sm. Berry	8	09-Aug-99	Allen wrench, tweezers	Metal	10	0.10	Sonatol
08-05-AGC	Sm. Berry	8	12-Aug-99	Manipulator spring, brackets, reflector	Metal	35	0.35	Sonatol
08-06-AGC	Sm. Berry	8	12-Aug-99	Large reflector	Metal	10	0.10	Sonatol
08-07-AGC	Sm. Berry	8	12-Aug-99	Allen wrench	Metal	5	0.05	Sonatol
08-10-AGC	Sm. Berry	8	13-Aug-99	Metal washer	Metal	5	0.05	Sonatol
AG-04-BAG5	Sm. Bag	4	14-Jul-99	3 in 1 oil (75% full of oil)	Metal/Oil	35		Segregate
07-58-AGC	Sm. Berry	7	05-Aug-99	Light socket with cord	Metal/Rubber	100	1.00	5390-01
AG-04-A	Sm. Berry	4	14-Jul-99	Light fixture w/ cord	Metal/Rubber/Glass	25	0.25	5390-02
04-09-AGC	Berry	4	15-Jul-99	Brush	Metal/Wood/Plastic	10	0.10	5390-02
1-07-AGC	Berry	1	25-Aug-99	Copper disk and weight	Other inorganic	5	0.05	Sonatol
04-07-AGC	Berry	4	07-Jul-99	Concrete chips	Other inorganic	25	0.25	5190-02
1-07-AGC	Berry	1	25-Aug-99	Bag with paint chips	Other organic	5	0.05	Segregate
1-01-AGC	Sm. Berry	1	16-Jun-99	Metmounts (4)	Plastic	100	1.00	5390-01
1-02-AGC	Sm. Berry	1	17-Jun-99	Sleeving	Plastic	100	1.00	5390-01
1-03-AGC	Sm. Berry	1	18-Jun-99	Sleeving	Plastic	100	1.00	5390-01
1-04-AGC	Berry	1	13-Jun-99	Lid	Plastic	25	0.25	5390-02
1-06-AGC	Berry	1	25-Aug-99	Bags	Plastic	100	1.00	5390-01

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
1-07-AGC	Berry	1	25-Aug-99	Sample Bottles, Metmounts (21), petri dishes, bags,	Plastic	80	0.80	5390-02
02-01-AGC	Berry	2	12-Jul-99	Sleeving	Plastic	50	0.50	5390-02
02-02-AGC	Sm. Berry	2	12-Jul-99	Metmounts (23),lids, bottle	Plastic	99	0.99	5390-02
02-03-AGC	Sm. Berry	2	12-Jul-99	Bottles (8)	Plastic	95	0.95	5390-02
02-04-AGC	Sm. Berry	2	12-Jul-99	Bottles (7)	Plastic	95	0.95	5390-01
02-05-AGC	Berry	2	12-Jul-99	Sleeving	Plastic	50	0.50	5390-01
02-06-AGC	Berry	2	12-Jul-99	Sleeving	Plastic	50	0.50	5390-01
02-07-AGC	Berry	2	12-Jul-99	Sleeving, rope (nylon)	Plastic	40	0.40	5390-02
02-09-AGC	Sm. Berry	2	12-Jul-99	Metmount, lid, bottle	Plastic	50	0.50	5390-02
02-11-AGC	Berry	2	13-Jul-99	Bottles	Plastic	40	0.40	5390-02
02-12-AGC	Berry	2	13-Jul-99	Bottles, tygon tubing	Plastic	50	0.50	5390-02
02-17-AGC	Lg. Berry	2	16-Aug-99	Plastic bag	Plastic	50	0.50	5390-02
03-01-AGC	Berry	3	18-Jun-99	Sleeving, lid	Plastic	20	0.20	5390-02
03-02-AGC	Sm. Berry	3	07-Jul-99	Bottles (8)	Plastic	95	0.95	5390-02
03-03-AGC	Sm. Berry	3	07-Jul-99	Bottles (3)	Plastic	50	0.50	5390-02
03-07-AGC	Berry	3	07-Jul-99	Lid, bottle	Plastic	40	0.40	5390-01
03-08-AGC	Berry	3	07-Jul-99	bottle	Plastic	10	0.10	5390-02
04-05-AGC	Berry	4	06-Jul-99	Sleeving, bottle (empty)	Plastic	35	0.35	5390-01
04-06-AGC	Berry	4	07-Jul-99	Bottle (empty)	Plastic	10	0.10	5390-02
04-08-AGC	Berry	4	09-Jul-99	Sleeving	Plastic	100	1.00	5390-01
04-09-AGC	Berry	4	15-Jul-99	Bag, lid, met mounts, tygon tubing	Plastic	70	0.70	5390-02
04-11-AGC	Sm. Berry	4	16-Aug-99	Probe sleeving	Plastic	75	0.75	5390-02
AG-04-A	Sm. Berry	4	14-Jul-99	Bottle (empty)	Plastic	25	0.25	5390-02
AG-04-BAG5	Sm. Bag	4	14-Jul-99	Bottle (empty)	Plastic	35	0.35	5390-02
06-06-AGC	Sm. Berry	6	01-Sep-99	Tygon tubing, sleeving, bottle (piece)	Plastic	90	0.90	Segregate
07-05A-AGC	Berry	7	24-Aug-99	Bag	Plastic	100	1.00	5390-01
07-06-AGC	Sm. Berry	7	16-Jul-99	Lids	Plastic	50	0.50	5390-01
07-09-AGC	Sm. Berry	7	19-Jul-99	Bottle (empty)	Plastic	20	0.20	5390-02
07-11-AGC	Sm. Berry	7	19-Jul-99	Bottle (empty), bag	Plastic	33	0.33	5390-02
07-12-AGC	Sm. Berry	7	19-Jul-99	Styrofoam cups	Plastic	50	0.50	5390-01
07-13-AGC	Sm. Berry	7	19-Jul-99	Styrofoam cups	Plastic	50	0.50	5390-01
07-14-AGC	Sm. Berry	7	19-Jul-99	Styrofoam cup	Plastic	20	0.20	5390-02
07-15-AGC	Sm. Berry	7	19-Jul-99	Sleeving	Plastic	100	1.00	5390-01
07-16-AGC	Sm. Berry	7	19-Jul-99	Styrofoam cup	Plastic	25	0.25	5390-02

Appendix D

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
07-16-AGC	Sm. Berry	7	19-Jul-99	Bottle pieces	Plastic	20	0.20	5390-02
07-17-AGC	Sm. Berry	7	19-Jul-99	Bottle pieces	Plastic	33	0.33	5390-01
07-18-AGC	Sm. Berry	7	19-Jul-99	Bottle pieces	Plastic	32	0.32	5390-02
07-19-AGC	Sm. Berry	7	20-Jul-99	Bag, styrofoam pieces	Plastic	25	0.25	5390-02
07-20-AGC	Sm. Berry	7	20-Jul-99	Bottle pieces, styrofoam pieces	Plastic	40	0.40	5390-01
07-21-AGC	Sm. Berry	7	20-Jul-99	Bottle pieces, styrofoam pieces	Plastic	40	0.40	5390-01
07-22-AGC	Sm. Berry	7	20-Jul-99	Bag, styrofoam cups, bottle pieces	Plastic	70	0.70	5390-01
07-23-AGC	Sm. Berry	7	20-Jul-99	Bottle pieces, styrofoam pieces, syringe, tygon tubing	Plastic	45	0.45	5390-01
07-24-AGC	Sm. Berry	7	20-Jul-99	Tygon tubing, syringe, bottle pieces, styrofoam pieces	Plastic	100	1.00	5390-01
07-25-AGC	Sm. Berry	7	20-Jul-99	Styrofoam pieces, bottle (empty), tygon	Plastic	45	0.45	5390-02
07-26-AGC	Sm. Berry	7	20-Jul-99	Styrofoam pieces, bottle pieces	Plastic	45	0.45	5390-02
07-27-AGC	Sm. Berry	7	20-Jul-99	Bag, bottle pieces, styrofoam pieces	Plastic	40	0.40	5390-01
07-28-AGC	Sm. Berry	7	21-Jul-99	Bottle pieces, styrofoam pieces	Plastic	50	0.50	5390-01
07-29-AGC	Sm. Berry	7	21-Jul-99	Bottle pieces, styrofoam, tygon	Plastic	55	0.55	5390-01
07-30-AGC	Sm. Berry	7	21-Jul-99	Bottle pieces, styrofoam pieces	Plastic	30	0.30	5390-02
07-31-AGC	Sm. Berry	7	21-Jul-99	Bottle pieces, styrofoam, tygon, syringe	Plastic	45	0.45	5390-02
07-32-AGC	Sm. Berry	7	21-Jul-99	Bottle pieces	Plastic	35	0.35	5390-02
07-33-AGC	Sm. Berry	7	21-Jul-99	Bag, styrofoam cups	Plastic	25	0.25	5390-02
07-34-AGC	Sm. Berry	7	21-Jul-99	Styrofoam cups, bottle pieces, tape	Plastic	100	1.00	5390-01
07-35-AGC	Sm. Berry	7	21-Jul-99	Styrofoam cups, bottle pieces, tape	Plastic	100	1.00	5390-01
07-36-AGC	Sm. Berry	7	21-Jul-99	Styrofoam cups, bottle pieces, tape	Plastic	100	1.00	5390-01
07-37-AGC	Sm. Berry	7	23-Jul-99	Styrofoam, tygon, bottle pieces, tape	Plastic	65	0.65	5390-02
07-38-AGC	Sm. Berry	7	23-Jul-99	Tape	Plastic	5	0.05	5390-02
07-39-AGC	Sm. Berry	7	23-Jul-99	Styrofoam cups, bottle pieces, tape	Plastic	65	0.65	5390-01
07-40-AGC	Sm. Berry	7	23-Jul-99	Styrofoam cups	Plastic	25	0.25	5390-02
07-41-AGC	Sm. Berry	7	23-Jul-99	Bottle, styrofoam cups	Plastic	35	0.35	5390-02
07-42-AGC	Sm. Berry	7	23-Jul-99	Bottle pieces, empty bottles (2)	Plastic	45	0.45	5390-02
07-43-AGC	Sm. Berry	7	23-Jul-99	Bottle pieces	Plastic	25	0.25	5390-02
07-44-AGC	Sm. Berry	7	23-Jul-99	Bottles pieces, styrofoam cups	Plastic	40	0.40	5390-02
07-45-AGC	Sm. Berry	7	26-Jul-99	Bottles pieces, styrofoam cups	Plastic	50	0.50	5390-01
07-46-AGC	Sm. Berry	7	26-Jul-99	Bottle pieces, styrofoam, bag	Plastic	45	0.45	5390-01
07-47-AGC	Sm. Berry	7	26-Jul-99	Vial, bags, bottle pieces, tygon	Plastic	90	0.90	5390-01
07-48-AGC	Berry	7	27-Jul-99	Tygon tubing	Plastic	65	0.65	5390-02

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
07-49-AGC	Berry	7	28-Jul-99	Tygon pieces, empty poly bottle	Plastic	100	1.00	5390-01
07-50-AGC	Sm. Berry	7	28-Jul-99	Bag, bottle, pieces, styrofoam,	Plastic	40	0.40	5390-02
07-51-AGC	Sm. Berry	7	27-Jul-99	Empty bottles, pieces, tygon, styrofoam	Plastic	45	0.45	5390-02
07-52-AGC	Sm. Berry	7	28-Jul-99	Empty bottles, bottle pieces, tygon	Plastic	100	1.00	5390-01
07-53-AGC	Sm. Berry	7	30-Jul-99	Tygon tubing, empty bottle, tape	Plastic	85	0.85	5390-01
07-54-AGC	Sm. Berry	7	03-Aug-99	Tygon tubing, bottle, pieces, tape	Plastic	55	0.55	5390-02
07-59-AGC	Sm. Berry	7	05-Aug-99	Bottle pieces	Plastic	30	0.30	5390-01
07-60-AGC	Sm. Berry	7	05-Aug-99	Bag, tygon tubing, bottle pieces	Plastic	40	0.40	5390-01
07-61-AGC	Sm. Berry	7	06-Aug-99	Tygon, bags, scale parts, bottle pieces	Plastic	65	0.65	5390-01
07-62-AGC	Sm. Berry	7	13-Aug-99	Bottle pieces	Plastic	34	0.34	5390-01
07-68-AGC	Berry	7	26-Aug-99	Bag	Plastic	5	0.05	5390-02
08-03-AGC	Sm. Berry	8	10-Aug-99	Arm bag	Plastic	100	1.00	5390-01
08-04-AGC	Sm. Berry	8	10-Aug-99	Arm bag	Plastic	100	1.00	5390-01
08-05-AGC	Sm. Berry	8	12-Aug-99	Arm bag, tygon, lid, vial	Plastic	40	0.40	5390-02
08-06-AGC	Sm. Berry	8	12-Aug-99	Tygon tubing	Plastic	10	0.10	5390-02
08-07-AGC	Sm. Berry	8	12-Aug-99	Bag, tubing, bottles	Plastic	90	0.90	5390-02
08-08-AGC	Sm. Berry	8	12-Aug-99	Plastic bottle tops	Plastic	100	1.00	5390-01
08-09-AGC	Sm. Berry	8	12-Aug-99	Plastic bottle	Plastic	50	0.50	5390-02
08-10-AGC	Sm. Berry	8	13-Aug-99	Bottle, bag	Plastic	20	0.20	5390-02
07-69-AGC	Overpack	7	31-Aug-99	Bottle w/ unknown liquid	Plastic/Liquid	100		Segregate
03-01-AGC	Berry	3	18-Jun-99	Gasket	Rubber	20	0.20	5390-02
04-05-AGC	Berry	4	06-Jul-99	Arm bag	Rubber	15	0.15	5390-01
04-06-AGC	Berry	4	07-Jul-99	Electric cord	Rubber	5	0.05	5390-02
07-33-AGC	Sm. Berry	7	21-Jul-99	Green rubber gloves	Rubber	25	0.25	5390-02
07-50-AGC	Sm. Berry	7	28-Jul-99	Green rubber gloves	Rubber	20	0.20	5390-02
07-60-AGC	Sm. Berry	7	05-Aug-99	Rubber stoppers	Rubber	10	0.10	5390-01
08-01-AGC	Sm. Berry	8	09-Aug-99	Rubber glovebag end, foam padding	Rubber	80	0.80	5390-01
08-02-AGC	Sm. Berry	8	09-Aug-99	Foam padding	Rubber	60	0.60	5390-02
07-57-AGC	Sm. Berry	7	05-Aug-99	Elec. Cords	Rubber/Copper	80	0.80	5390-01
07-59-AGC	Sm. Berry	7	05-Aug-99	Elec. Cords	Rubber/Copper	30	0.30	5390-01
07-09-AGC	Sm. Berry	7	19-Jul-99	Soil	Soil	20	0.20	Segregate
07-10-AGC	Sm. Berry	7	19-Jul-99	Soil	Soil	25	0.25	Segregate
07-11-AGC	Sm. Berry	7	19-Jul-99	Soil	Soil	32	0.32	Segregate
07-14-AGC	Sm. Berry	7	19-Jul-99	Soil	Soil	25	0.25	Segregate
07-16-AGC	Sm. Berry	7	19-Jul-99	Soil	Soil	20	0.20	Segregate

Appendix D

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
07-17-AGC	Sm. Berry	7	19-Jul-99	Soil	Soil	34	0.34	Segregate
07-18-AGC	Sm. Berry	7	19-Jul-99	Soil	Soil	32	0.32	Segregate
07-19-AGC	Sm. Berry	7	20-Jul-99	Soil	Soil	25	0.25	Segregate
07-20-AGC	Sm. Berry	7	20-Jul-99	Soil	Soil	20	0.20	Segregate
07-21-AGC	Sm. Berry	7	20-Jul-99	Soil	Soil	20	0.20	Segregate
07-23-AGC	Sm. Berry	7	20-Jul-99	Soil	Soil	25	0.25	Segregate
07-25-AGC	Sm. Berry	7	20-Jul-99	Soil	Soil	25	0.25	Segregate
07-26-AGC	Sm. Berry	7	20-Jul-99	Soil	Soil	25	0.25	Segregate
07-27-AGC	Sm. Berry	7	20-Jul-99	Soil	Soil	20	0.20	Segregate
07-28-AGC	Sm. Berry	7	21-Jul-99	Soil	Soil	25	0.25	Segregate
07-29-AGC	Sm. Berry	7	21-Jul-99	Soil	Soil	20	0.20	Segregate
07-30-AGC	Sm. Berry	7	21-Jul-99	Soil	Soil	15	0.15	Segregate
07-31-AGC	Sm. Berry	7	21-Jul-99	Soil	Soil	15	0.15	Segregate
07-40-AGC	Sm. Berry	7	23-Jul-99	Soil	Soil	25	0.25	Segregate
07-41-AGC	Sm. Berry	7	23-Jul-99	Soil	Soil	33	0.33	Segregate
07-43-AGC	Sm. Berry	7	23-Jul-99	Soil	Soil	25	0.25	Segregate
07-44-AGC	Sm. Berry	7	23-Jul-99	Soil	Soil	20	0.20	Segregate
07-45-AGC	Sm. Berry	7	26-Jul-99	Soil	Soil	25	0.25	Segregate
07-46-AGC	Sm. Berry	7	26-Jul-99	Soil	Soil	25	0.25	Segregate
07-51-AGC	Sm. Berry	7	27-Jul-99	Soil	Soil	20	0.20	Segregate
07-61-AGC	Sm. Berry	7	06-Aug-99	Soil	Soil	30	0.30	Segregate
07-62-AGC	Sm. Berry	7	13-Aug-99	Soil	Soil	33	0.33	Segregate
07-01-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	100	1.00	3150-01
07-02-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	100	1.00	3150-01
07-03-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	100	1.00	3150-01
07-04-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	100	1.00	3150-01
07-05-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	100	1.00	3150-01
07-06-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	50	0.50	3150-01
07-07-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	100	1.00	3150-01
07-08-AGC	Sm. Berry	7	16-Jul-99	Burn up slugs	Solidified Liquids	100	1.00	3150-01
07-09-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	20	0.20	3150-01
07-10-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	25	0.25	3150-01
07-11-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	32	0.32	3150-01
07-12-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	50	0.50	3150-01
07-13-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	50	0.50	3150-01

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
07-14-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	25	0.25	3150-01
07-16-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	25	0.25	3150-01
07-17-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	33	0.33	3150-01
07-18-AGC	Sm. Berry	7	19-Jul-99	Burn up slugs	Solidified Liquids	32	0.32	3150-01
07-19-AGC	Sm. Berry	7	20-Jul-99	Burn up slugs	Solidified Liquids	25	0.25	3150-01
07-20-AGC	Sm. Berry	7	20-Jul-99	Burn up slugs	Solidified Liquids	20	0.20	3150-01
07-21-AGC	Sm. Berry	7	20-Jul-99	Burn up slugs	Solidified Liquids	20	0.20	3150-01
07-22-AGC	Sm. Berry	7	20-Jul-99	Burn up slugs	Solidified Liquids	30	0.30	3150-01
07-23-AGC	Sm. Berry	7	20-Jul-99	Burn up slugs	Solidified Liquids	25	0.25	3150-01
07-30-AGC	Sm. Berry	7	21-Jul-99	Burn up slugs	Solidified Liquids	20	0.20	3150-01
07-42-AGC	Sm. Berry	7	23-Jul-99	Burn up slugs	Solidified Liquids	20	0.20	3150-01
07-54-AGC	Sm. Berry	7	03-Aug-99	Burn up slugs	Solidified Liquids	25	0.25	3150-01
07-48-AGC	Berry	7	27-Jul-99	Sweepings	Sweepings	30	0.30	5390-02
03-03-AGC	Sm. Berry	3	07-Jul-99	Bottle of abraisive powder	UNK	25	0.25	Segregate
C4-1	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-10	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-11	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-12	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-13	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-14	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-15	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-16	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-17	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-18	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-19	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-2	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-20	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-21	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-22	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-23	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-24	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-25	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-26	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-27	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-28	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	

Appendix D

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
C4-29	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-3	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-30	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-31	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-32	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-33	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-34	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-35	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-36	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-4	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-5	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-6	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-7	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-8	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
C4-9	Berry	4	30-Jun-99	Legacy Waste	UNK	100	1.00	
05-01-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-02-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-03-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-04-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-05-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-06-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-07-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-08-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-09-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-10-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-11-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-12-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-13-AGC		5		In SDSBC 1935(LLW), thought LLW	UNK	100		Segregate
05-14-AGC		5		In SDSBC 1935(LLW), thought LLW	UNK	100		Segregate
05-15-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-16-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-17-AGC		5		In SDSBC 1935(LLW), thought LLW	UNK	100		Segregate
05-18-AGC		5		In SDSBC 1935(LLW), thought LLW	UNK	100		Segregate
05-19-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-20-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate

Alpha/Gamma Cells Berry Can Repackaging Inventory

Original Can No.	Can Type	Cell No.	Pack Date	Original Contents	Materials	Percent	Comp. Vol. (gal.)	Waste Stream
05-21-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-22-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-23-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
05-BAG1-AGC		5		In SDSBC 1934(LLW), thought LLW	UNK	100		Segregate
06-01-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-02-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-03-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-04-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-05-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-07-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-08-AGC		6		In SDSBC 1935(LLW)	UNK	100		Segregate
06-09-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-10-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-11-AGC		6		In SDSBC 1934(LLW)	UNK	100		Segregate
06-12-AGC		6		In SDSBC 1935(LLW)	UNK	100		Segregate
				In SDSBC 1934(LLW)	UNK	100		Segregate